

FIELD MAINTENANCE PRINT SET

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RL02 Disk Drive Assembly
Power Panel Assembly

K-PL-RL02-0-DBP
K-PL-7012130-0-DBP

UNIT VARIATIONS
COVERED BY THIS
PRINT SET

RL02
Field Maintenance
Print Set

Digital Equipment
Corporation

PRINT SET NO.
MP00553

REVISIONS	REV	CHG. NO.	DATE	USED ON OPTION/MODEL	DRN.	DATE	TITLE: RL02 DISK DRIVE							
				RL02	CHK'D	DATE								
						PROJ. ENG.	DATE	SIZE	CODE	NUMBER				REV.
						FIELD SERV.	DATE	B	TC	RL02-0-1				B
								DIST.						

DRB 124

digital

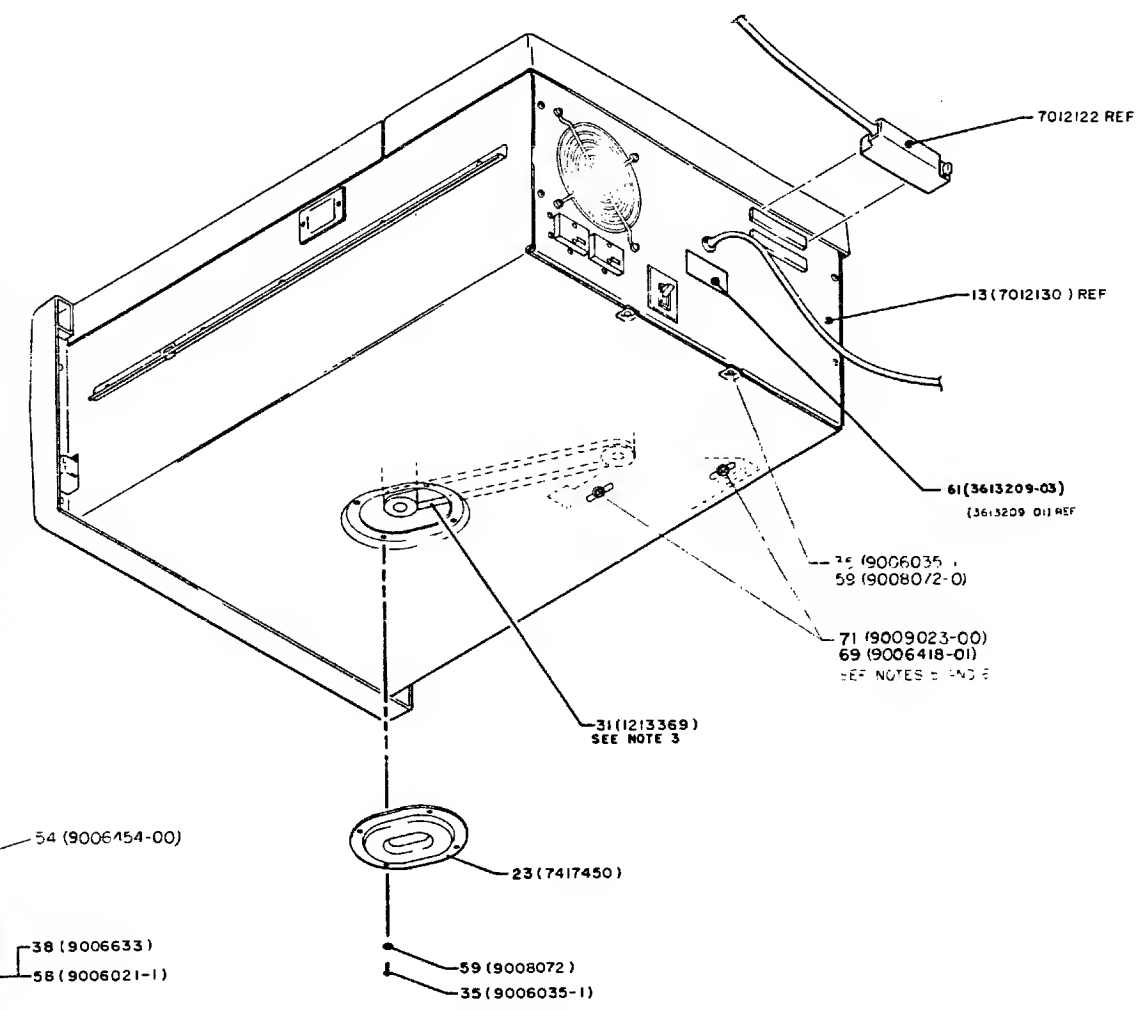
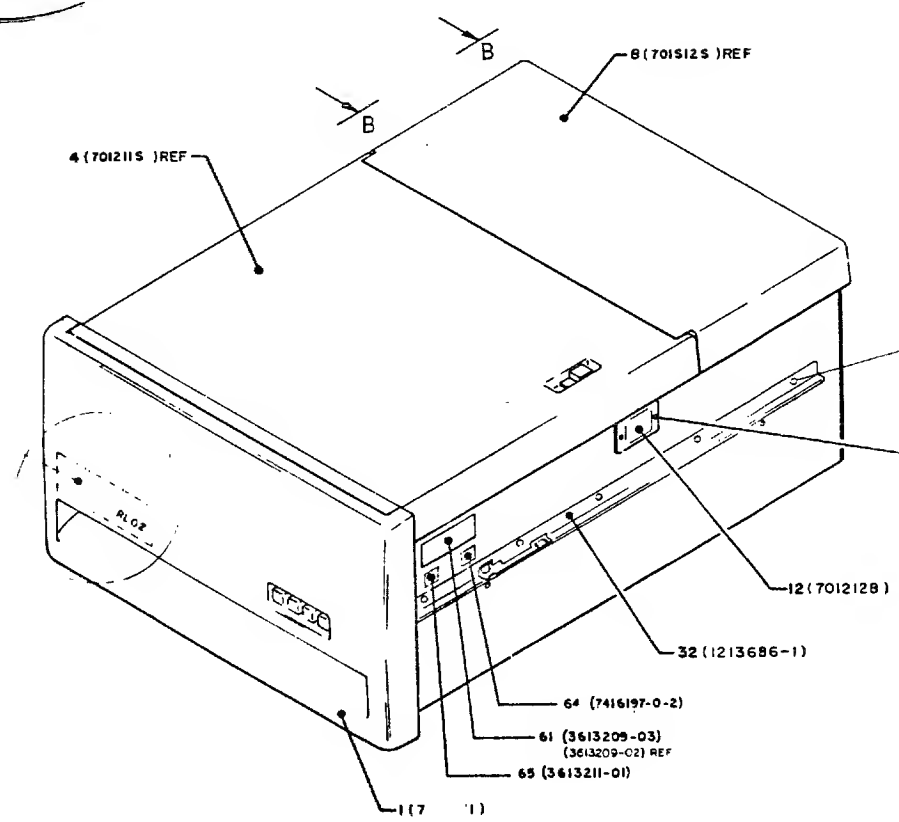
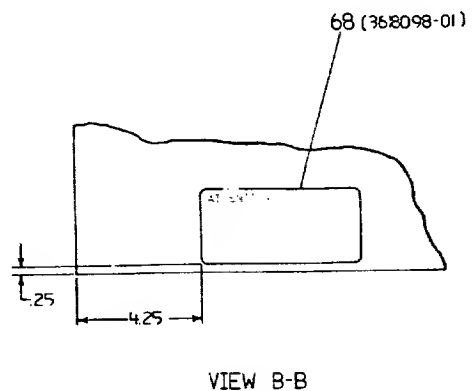
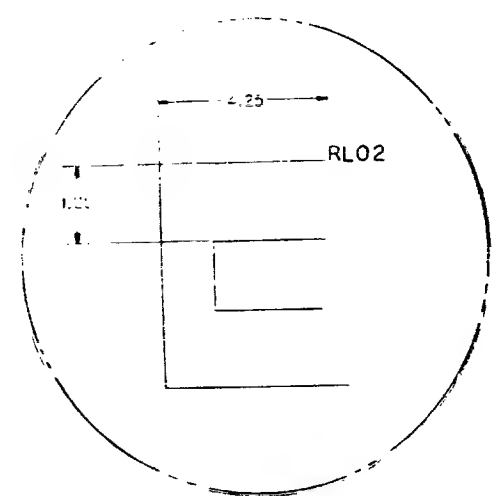
DRN. R. Richard 21 Sep 78

CHK'D W. Main 6 Jun 79

PROJ. ENG. M. J. 6-6-79

FIELD SERV. Clay Mares 6 Jun 79

REVISIONS

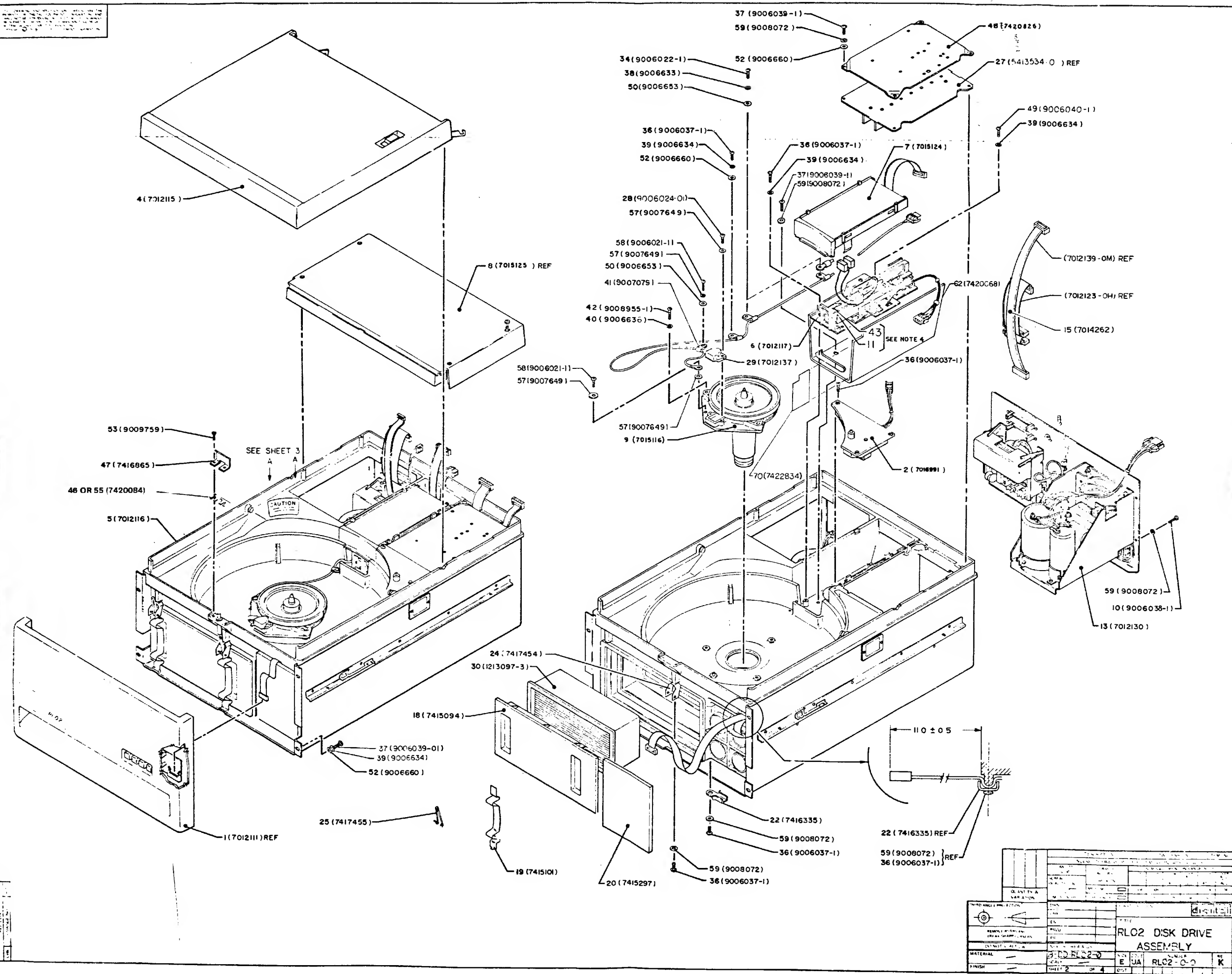


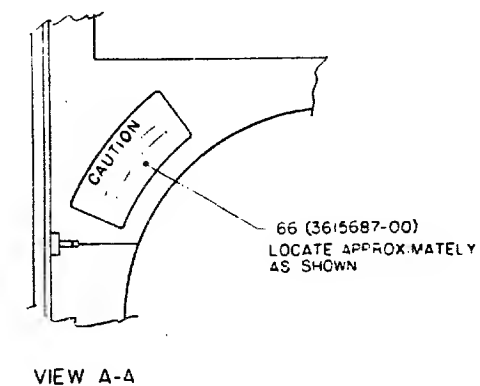
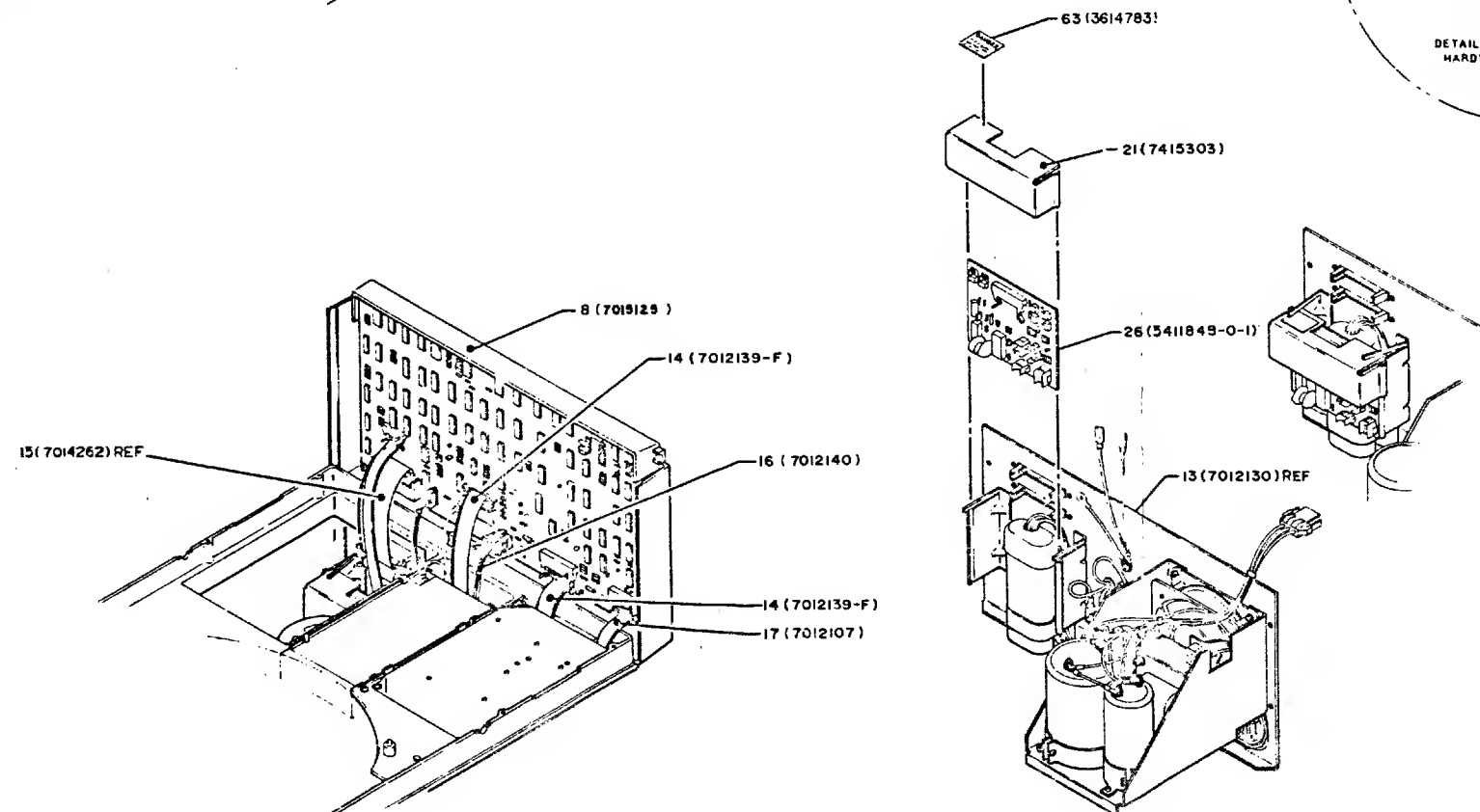
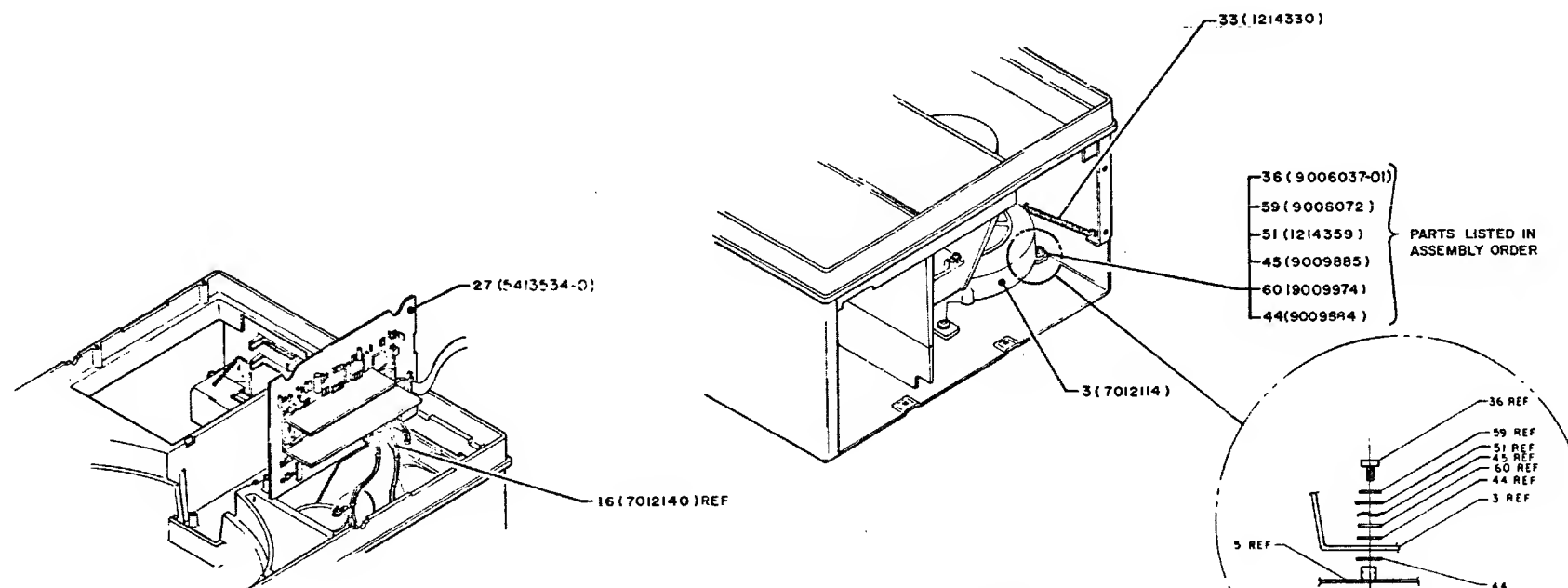
- NOTES
1. LOWER HEAD (ITEM 65) SHALL BE POSITIONED REAR ARDS AGAINST PIN IN CARRIAGE
 2. ALL SCREWS TO BE TIGHTENED AS FOLLOWS:
4-40 SCREW, TORQUE 3.5 ± 0.5 IN. LBS.
6-32 " 5.0 ± 1.0 " "
8-32 " 10.0 ± 1.0 " "
10-32 " 18.0 ± 2.0 " "
 3. DRIVE BELT TENSION 10.0 ± 1.0 LBS.
 4. 4-40 HEAD MOUNTING BOLTS TO BE TIGHTENED TO 5.25 IN. LBS.
 5. TORQUE 8-32 SELF TAPPING HARDWARE (ITEM 69) TO .6-18 IN. LBS.
 6. BLOWER HOUSING SECURING HARDWARE TO BE REMOVED BEFORE OPERATING UNIT.

CAUTION
OFF-SHEET PARTS LIST EXISTS.
SEE K-PL. PL02-0 DBP (20485).

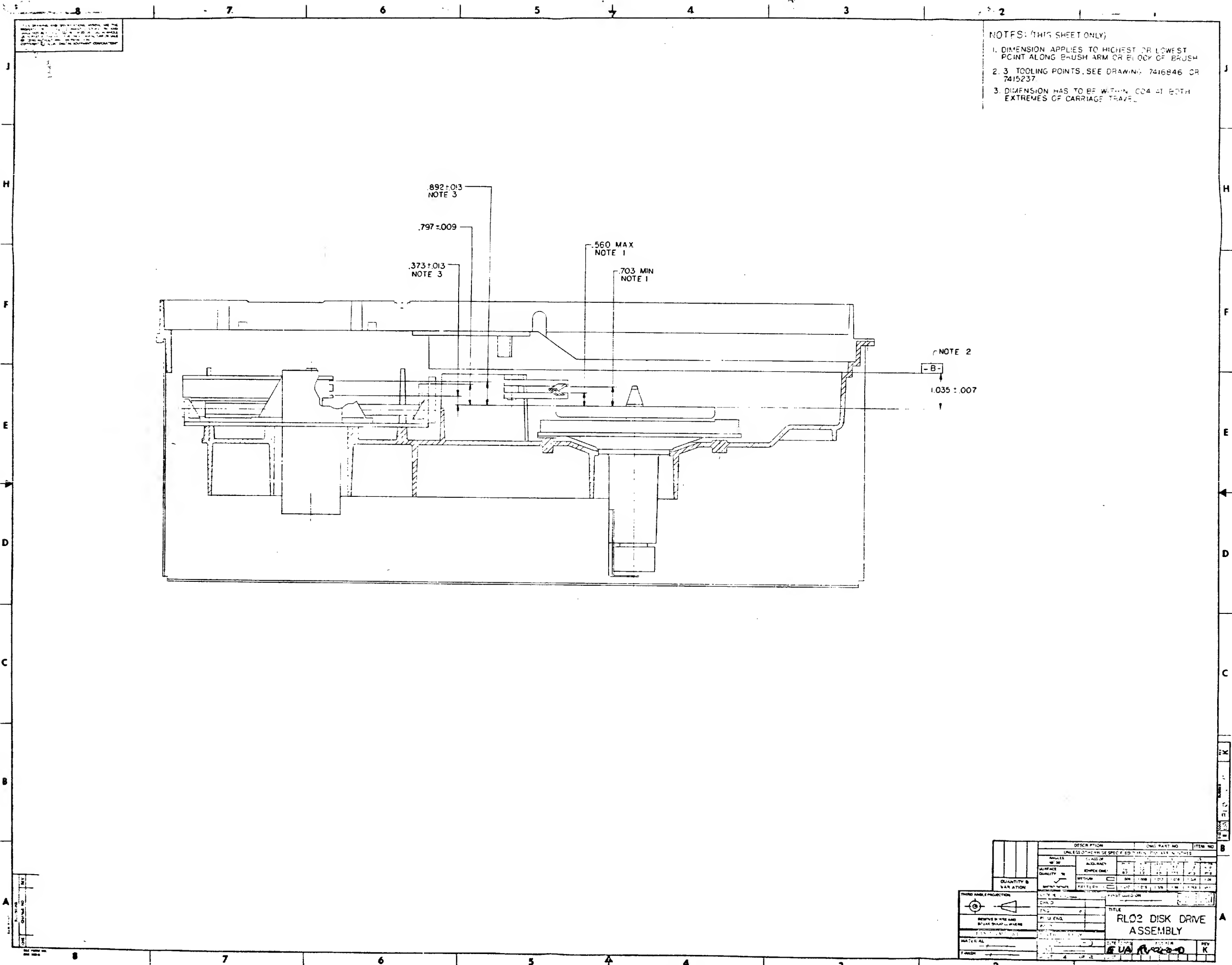
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3	10/1/70	W. T. BROWN		REVISION 2
4	10/1/70	W. T. BROWN		REVISION 3
5	10/1/70	W. T. BROWN		REVISION 4
6	10/1/70	W. T. BROWN		REVISION 5
7	10/1/70	W. T. BROWN		REVISION 6
8	10/1/70	W. T. BROWN		REVISION 7
9	10/1/70	W. T. BROWN		REVISION 8
10	10/1/70	W. T. BROWN		REVISION 9
11	10/1/70	W. T. BROWN		REVISION 10
12	10/1/70	W. T. BROWN		REVISION 11
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99	10/1/70	W. T. BROWN		REVISION 98
100	10/1/70	W. T. BROWN		REVISION 99
101	10/1/70	W. T. BROWN		REVISION 100

QUANTITY & VARIATION		DATE		BY		CHKD		TITLE	
1		10/1/70		W. T. BROWN		W. T. BROWN		RL02 DISK DRIVE ASSEMBLY	
1		10/1/70		W. T. BROWN		W. T. BROWN		EUA RL02-0-0	
1		10/1/70		W. T. BROWN		W. T. BROWN		K	



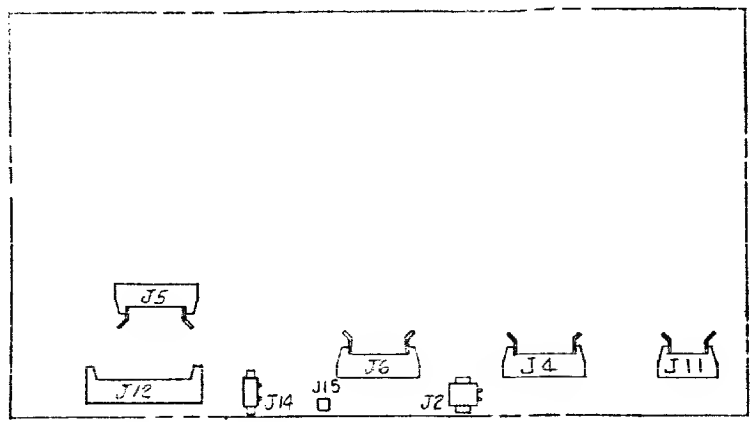


QUANTITY & VARIATION		DESCRIPTION		QTY	UNIT	ITEM NO																																
1		RL02 DISK DRIVE	ASSEMBLY																																			
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DATE	10/1/70	BY	W. J. K.																																			
CHK'D		ENG																																				
PROJ. ENG		PROJ. ENG																																				
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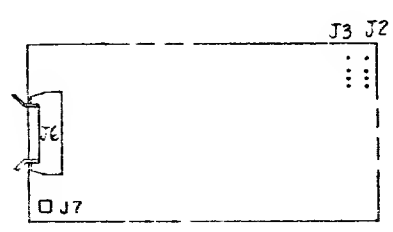


DESCRIPTION		QTY	UNIT	ITEM NO.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES				
QUANTITY	DESCRIPTION	QTY	UNIT	ITEM NO.
1	RL02 DISK DRIVE ASSEMBLY	1	EA	1
REVISIONS		DATE		
1	REVISED	10/1/68		
APPROVED		DATE		
EUA		10/1/68		
MATERIAL		DATE		
FABRIC		DATE		

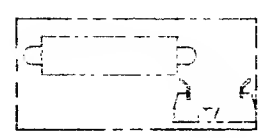
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CHECKED BY: J. MILLER
DATE: 10-1-78
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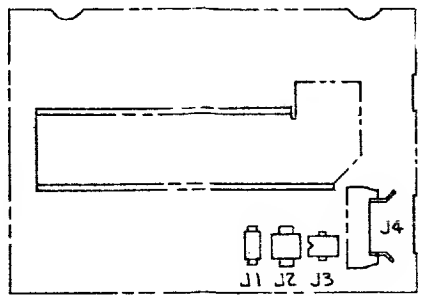
LOGIC BOARD
FIG 1



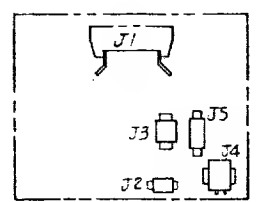
R/W BOARD
FIG 2



FRONT PANEL BOARD
FIG 3



D.C. SERVO BOARD
FIG 4

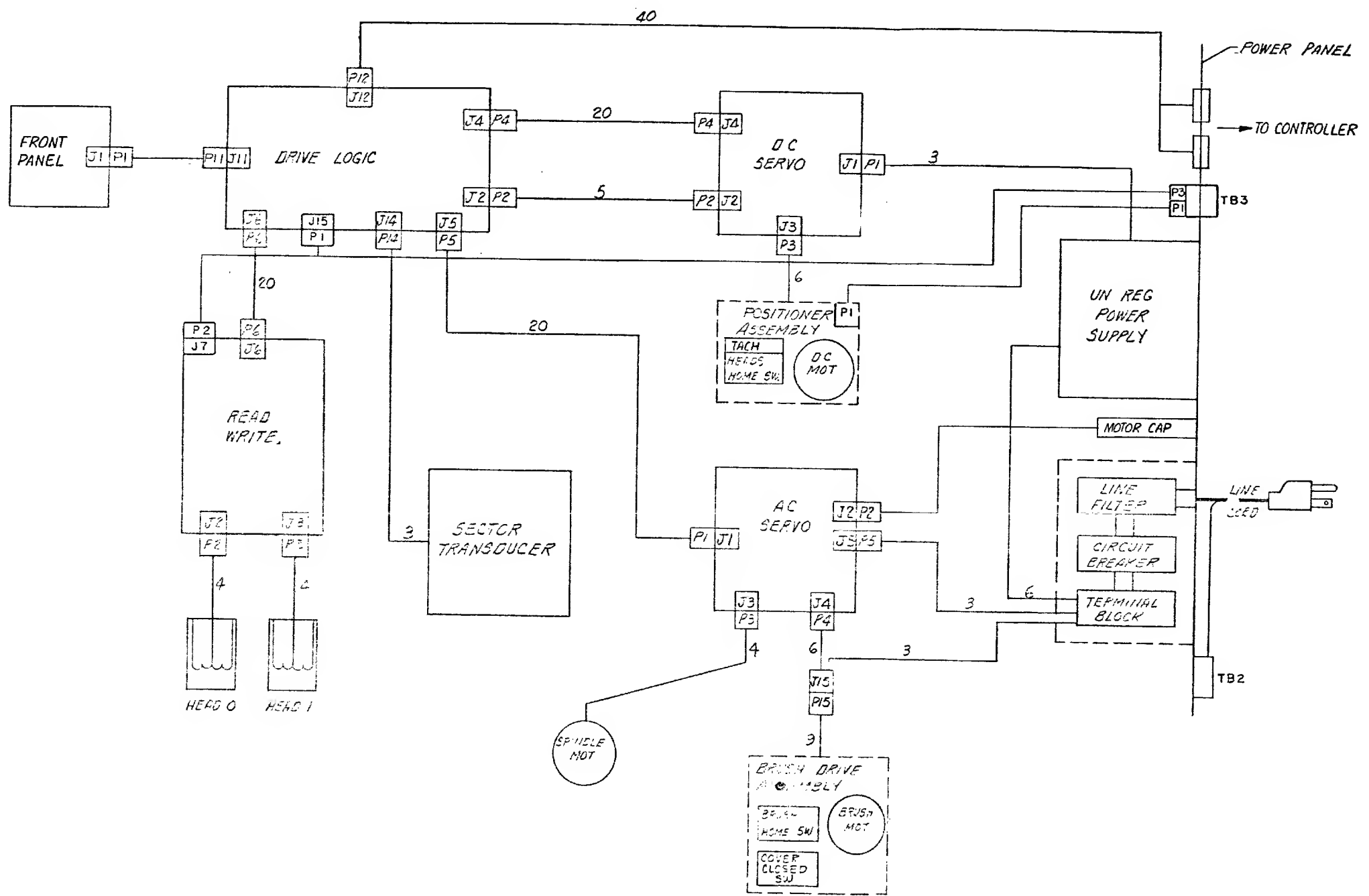


A.C. SERVO BOARD
FIG 5

	A	B	C
RL02-0001			
J. MILLER			
RL02-CX008			
J. K. GUENZEL			
RL02-CX010			
M. ZARICH			
M. Zarich			

THIRD ANGLE PROJECTION		DESCRIPTION		DWG. PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSIONS IN INCHES			
ANGLES 90° 30°		MEDIUM		OVER 0 TO 1/2		OVER 1/2 TO 1	
SURFACE QUALITY IN		MEDIUM		OVER 1 TO 2		OVER 2 TO 4	
QUANTITY & VARIATION		MEDIUM		OVER 4 TO 12		OVER 12 TO 48	
REMOVE BURRS AND BREAK SHARP CORNERS		MEDIUM		OVER 48 TO 120		OVER 120 TO 480	
DO NOT SCALE		MEDIUM		OVER 480 TO 1200		OVER 1200 TO 4800	
NEXT FOLDER NO.		MEDIUM		OVER 4800 TO 12000		OVER 12000 TO 48000	
MATERIAL		B-DD-RL02-0		SIZE		D 10	
FINISH		BUT		SCALE		RL02-0001	
				REV		C	

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QUANTITY & VARIATION		DESCRIPTION		DWS PART NO.		ITEM NO.	
THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANGLES 10° 30'		CLASS OF ACCURACY	
REMOVED BURRS AND BREAKHAWK CORNERS		SURFACE QUALITY		CHECK ONE		MEDIUM	
MATERIAL		FINISH		B-00-RL02-0		SIZE CODE	
						NUMBER	
						REV	
						RL02-C-3	
						C	

LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
1	1	D-AD-7012111-0-0	7012111-00	BEZEL ASSY	1
2	2	D-AD-7012112-0-0	7012112-00	BRUSH DRIVE ASSY	1
3	3	E-AD-7012114-0-0	7012114-00	DISK MOTOR ASSY	1
4	4	E-AD-7012115-0-0	7012115-00	FRONT COVER ASSY	1
5	5	E-AD-7012116-0-0	7012116-00	MAIN CHASSIS ASSY	1
6	6	D-AD-7012117-0-0	7012117-00	POSITIONER ASSY	1
7	7	D-AD-7015124-0-0	7015124-00	RL02 R/W BOX ASSY	1
8	8	D-AD-7015125-0-0	7015125-00	RL02 REAR COVER ASSY	1
9	9	D-AD-7015116-0-0	7015116-00	SPINDLE ASSY	1
10	10		9006038-01	SCREW,PAN,PHIL 8-32X 7/16 SS	4
11	11	D-IA-7015637-0-0	7015637-00	RL02 DATA HEAD 'A' UP	1
12	12	B-AD-7012128-0-0	7012128-00	ACCESS COVER ASSEMBLY	1
13	13	D-AD-7012130-0-0	7012130-00	POWER PANEL ASSEMBLY	1
14	14	B-IA-7012139-0-0	7012139-0F	INTERCONNECT CABLE	2
15	15	B-IA-7014262-0-0	7014262-00	INTERCONNECT CABLE ASSEMBLY	1
16	16	C-IA-7012140-0-0	7012140-00	POWER HARNESS DC	1
17	17	B-IA-7012107-0-0	7012107-3D	INTERCONNECT CABLE	1
18	18	D-MD-7415094-0-0	7415094-00	REAR COVER	1
19	19	C-MD-7415101-0-0	7415101-00	SPRING, PLENUM COVER	2
20	20	C-MD-7415297-0-0	7415297-00	FILTER,PAD	1
21	21	C-MD-7415303-0-0	7415303-00	COVER AC SERVO	1
22	22	C-MD-7416335-0-0	7416335-00	CABLE RETAINER	1
23	23	D-MD-7417450-0-0	7417450-00	HATCH	1
24	24	C-MD-7417454-0-0	7417454-00	BRACKET PLENUM	2
25	25	C-MD-7417455-0-0	7417455-00	LATCH PLENUM	2
26	26	D-UA-5411848-0-0	5411848-00	ETCH BRD 54-11848	1
27	27	D-UA-5413534-0-0	5413534-00	DC SERVO + POWER SUPPLY (RL02)	1
28	28		9006024-01	SCREW,PAN,PHIL 6-32X 1/2 SS	2
29	29	D-AD-7012137-0-0	7012137-00	TRANSDUCER ASSY	1
30	30		1213097-00	FILTER,AIR,HEPA,33CFM	1

30		30		1215077 00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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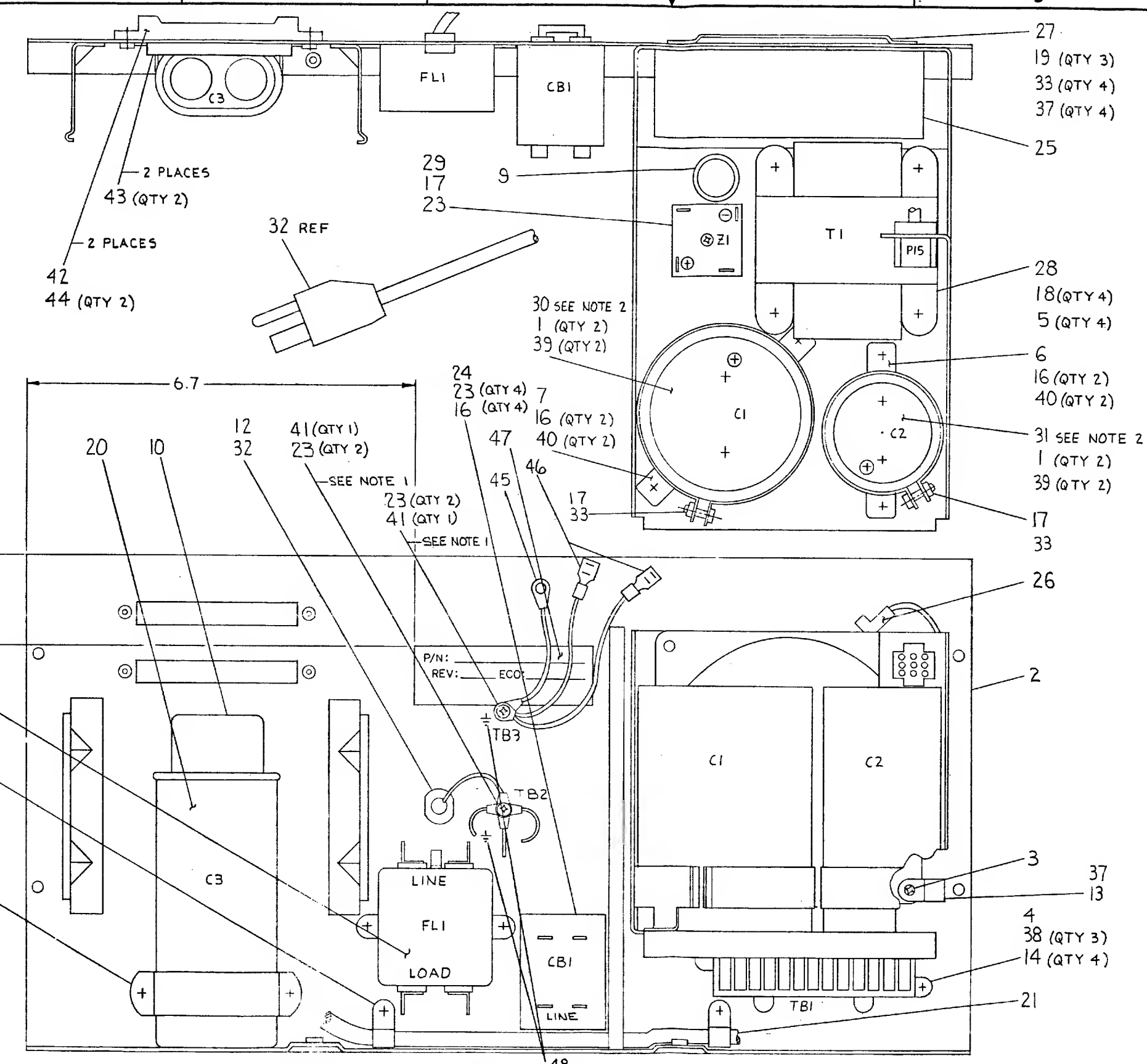
LINE ITEM		DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
31	31		1213369-00	BELT,WOVEN,ENDLESS.375WX27.148LG	1
32	32		1213686-01	MOUNTING RAIL FOR 12-13686-00	1
33	33		1214330-00	SPRING,EXTENSION,2.5LX.360D	1
34	34		9006022-01	SCREW,PAN,PHIL 5-32X 3/8 SS	2
35	35		9006035-01	SCREW,PAN,PHIL 8-32X 1/4 SS	6
36	36		9006037-01	SCREW,PAN,PHIL 8-32X 3/8 SS	13
37	37		9006039-01	SCREW,PAN,PHIL 8-32X 1/2 SS	12
38	38		9006633-00	WASHER,LOCK,INT,.2800D X .146ID	4
39	39		9006634-00	WASHER,LOCK,INT,.2300D X .172ID	15
40	40		9006636-00	WASHER,LOCK,INT,.3800D X .200ID	3
41	41		9007079-00	CLAMP, CABLE, SCREW MNT, 1/8"	4
42	42		9008955-01	SCREW,PAN,PHIL 10-32X 15/16SS	3
43	43	D-IA-7015637-0-0	7015637-01	RL02 DATA HEAD 'A' DN	1
44	44		9009884-00	WASHER, FLAT, TEFLON .62 OD X.31	4
45	45		9009885-00	WASHER, SPRING	2
46	46	B-MD-7420084-0-0	7420084-00	SHIM, LATCH	A/R
47	47	C-MD-7416865-0-0	7416865-00	BRACKET LATCH	1
48	48	D-MD-7420826-0-0	7420826-00	COVER, DC SERVO BOARD	1
49	49		9006040-01	SCREW,PAN,PHIL 8-32X 5/8 SS	2
50	50		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	3
51	51		1214359-00	WASHER,FLAT,S/S .169ID X .620D X	2
52	52		9006660-00	WASHER, FLAT, .375 O.D. X .187 I	11
53	53		9009759-00	SCREW,FLAT,PHIL, 8-32X 3/8	2
54	54		9006454-00	RIVET, BLIND, .156 DIA X .254 LG	10
55	55	B-MD-7420084-0-0	7420084-01	SHIM LATCH	A/R
56	56		3700406-00	INSTR PKG DISK RL01 DRIVE	1
57	57		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6	5
58	58		9006021-01	SCREW,PAN,PHIL 6-32X 5/16 SS	4
59	59		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	21
60	60		9009974-00	WASHER, FLAT, METAL,.62 O.D. X	2
61	61		3613209-03	LABEL,ELECTRICAL DATA VARIATIO	1
62	62	D-MD-7420068-0-0	7420068-00	SHIELD POSITIONER	1
63	63		3614783-00	LABEL,ADH BACK 'DANGER HIGH VOLT	1
64	64	A-DC-7416197-0-0	7416197-02	DECAL, LA36	1
65	65		3613211-01	DECAL,CLEAR PREPRINTED CSA 1-1/4	1
66	66		3615687-00	LABEL,ADHESIVE BACK FOR RL02	1
67	67		3615393-05	LABEL,RUB-ON,RL02	1
68	68		3616643-00	LABEL,CAUTION	1
69	69		9006418-01	SCREW,TAPPING,TYPE TT,PAN ,PHIL,	2
70	70	B-MD-7422834-0-0	7422834-00	INSULATOR,HEAD CABLE	1
71	71		9009023-00	WASHER,LOCK,INT,.3300D X .172ID	2
72	72	C-IA-7017608-0-0	7017608-00	*** THIS ITEM IS NOT USED ***	-
73	73	B-IA-7017609-0-0	7017609-00	*** THIS ITEM IS NOT USED ***	-

D I G I T A L		TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
		RL02 DISK DRIVE ASSEMBLY		K	PL	RL02-0-DBP	H

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REV. 10-0-001210Z
SIZE CODE 3000 3215

NOTES:
1. INT TOOTH LOCK WASHERS (ITEM 23) ARE USED OVER AND UNDER GROUND TERMINALS.
2. ORIENT TERMINALS AS SHOWN.



CAUTION: OFF SHEET PARTS LIST EXISTS.
SEE K-PL-7012130-0-DBP (Z0849)

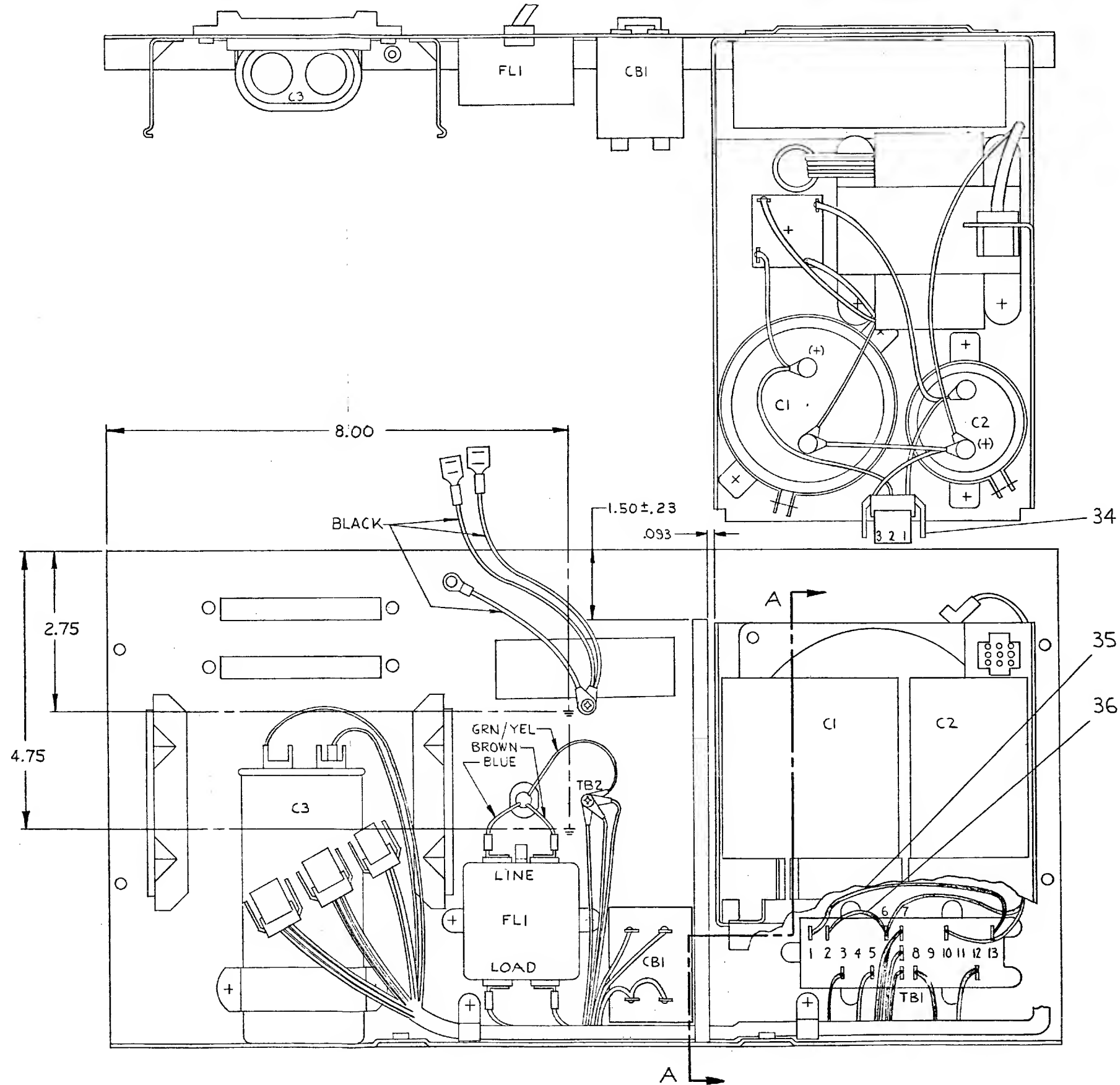
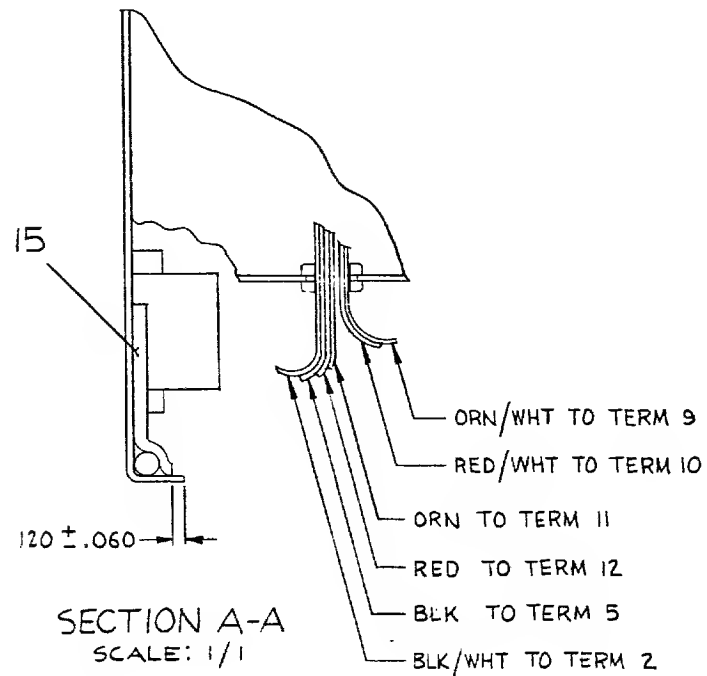
REV.	CHANGE NO.	DESCRIPTION
A	1	REPLACED AT REV A PREVIOUS REV X018
B	2	7012130-0001 G. REICHENBERG
C	3	7012130-0002 G. SCHNEIDER
D	4	RL01-00009 G. SCHNEIDER
E	5	7012130-0003 K. GUENZEL
F	6	7012130-0004 G. REICHENBERG
H	7	7012130-0005 G. REICHENBERG
J	8	RL01-00010 K. GUENZEL
K	9	7012130-0006 K. GUENZEL
L	10	7012130-0007 K. GUENZEL
M	11	7012130-0008 K. GUENZEL
N	12	7012130-0009 K. GUENZEL
P	13	7012130-0010 K. GUENZEL
R	14	RL02-00009 K. GUENZEL
S	15	7012130-0011 K. GUENZEL
T	16	RL02-00010 M. ZARICH
U	17	646 7012130-0012 D.C. 30 JUL 80 K. GUENZEL
V	18	705 7012130-0013 L. WALENTA

THIRD ANGLE PROJECTION REMOVE BURRS AND BREAK SHARP CORNERS DO NOT SCALE OWG MATERIAL SEE PARTS LIST FINISH	QUANTITY & VARIATION	DESCRIPTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES 90° 30° SURFACE QUALITY IN MICROINCHES CLASS OF ACCURACY (CHECK ONE) MEDIUM PREFERRED	OWG./PART NO. ITEM NO.
	ORNDORF CHK'D ENG. 3. SCHNEIDER PROJ. ENG. R. ARNOLD PROD. BY: ANNEC	FIRST USED ON RL01	TITLE POWER PANEL ASSY
	SIZE SCALE: 1/1	CODE D	NUMBER 7012130-0-0
	SHEET OF 3	OIST.	REV. V

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NOTES:

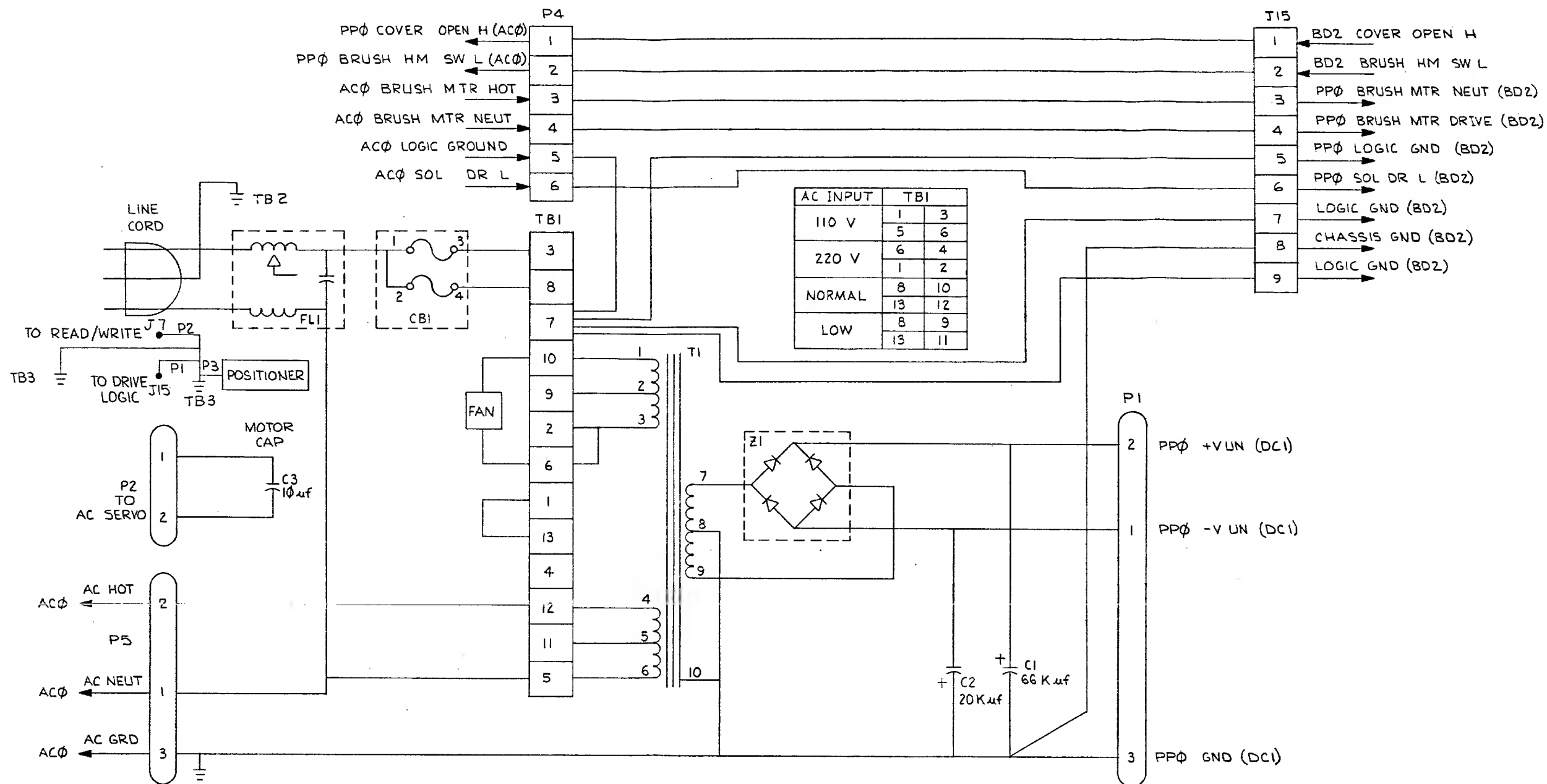
- INPUT VOLTAGE 50 OR 60 HZ
90-110, 105-128 VAC
180-220, 210-256 VAC
- OUTPUT VOLTAGE ± 11.5 VDC MIN AT MIN POINT OF THE RIPPLE. 18 VDC MAX AT HIGH LINE. (MAX OF 25 VDC AT HIGH LINE NO LOAD).
- OUTPUT CURRENT: POSITIVE OUTPUT
2.5 AMP CONTINUOUS
3.5 AMP PULSE "25 MS"
NEGATIVE OUTPUT
.25 AMP CONTINUOUS
3.5 AMP PULSE "25 MS"
PULSE CURRENT ON ALTERNATE OUTPUT AT A 65 MS OUT CYCLE.
- OUTPUT RIPPLE AT 110 VOLTS
A. NO LOAD 100 MV P/P
B. +2.5 A 600 MV P/P
-.25 A 300 MV P/P
C. +2.5 A 600 MV P/P
-3.75 A 1.5 V DURING PULSE
RIPPLE AT 90 V RMS
+2.5 A 500 MV
-3.75 A 2 V
+6 A 900 MV
-.25 A 400 MV
- HIGH POT TEST PER UL 478
CONNECT BOTH AC LEADS TO THE POSITIVE TERMINAL OF THE SUPPLY AND GRN WIRE GROUND TO THE NEGATIVE TERMINAL OF THE SUPPLY. CLOSE CIRCUIT BREAKER AND INCREASE VOLTAGE TO 1750 VDC, ANY CURRENT INDICATES FAILURE.



REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE CODE	NUMBER	REV.
POWER PANEL ASSY		D	AD7012130-0-0	V
SCALE: 1/1	SHEET 2 OF 3	DIST.		

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION.
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REVISIONS		
CHK	CHANGE NO.	REV.

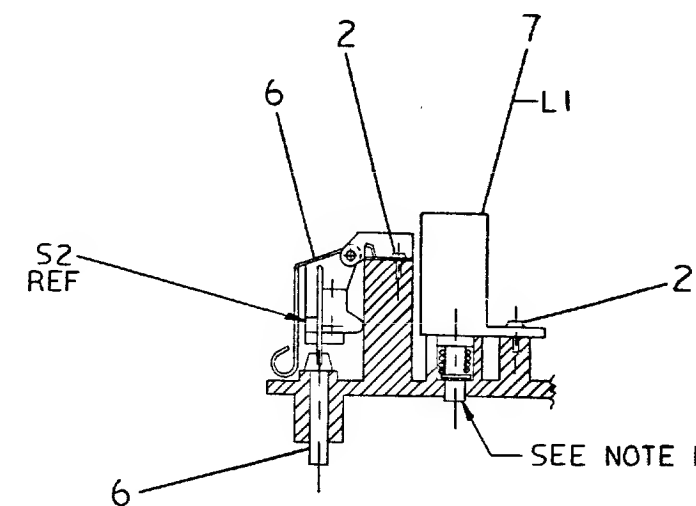
TITLE		SIZE CODE	NUMBER	REV.
POWER PANEL ASSY (PPO)		D AD	7012130-0-0	V
SCALE: 1/1		SHEET 3 OF 3	DIST.	

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
1	1		9006070-01	SCREW,PAN,PHIL 10-32X 5/16 SS	4
2	2	D-IA-7416326-0-0	7416326-00	CHASSIS	1
3	3		9006028-01	SCREW,PAN,PHIL 6-32X1 SS	1
4	4	C-AD-7012127-0-0	7012127-00	CHASSIS ASSY	1
5	5		9008072-00	WASHER, LOCK, EXTERNAL TOOTH #8	4
6	6		1210430-00	BRACKET,CAPACITOR,2"	1
7	7		1210431-00	BRACKET,CAPACITOR,3-1/16"	1
8	8		1213156-01	BRACKET,CAPACITOR,WRAP-AROUND	1
9	9		9007016-00	GROMMET, RUBBER	1
10	10		1213683-00	BOOT,CAPACITOR,RUBBER	1
11	11		9007113-00	*** THIS ITEM IS NOT USED ***	-
12	12		9009768-01	BUSHING,STRAIN RELIEF .280-.393W	1
13	13		9007082-00	CLAMP,CABLE,SCREW MTD. 5/16"	3
14	14		9009800-01	SCREW,PAN,PHILLIPS, 6X7/8 SELF-	4
15	15		9009059-01	TAPE,FOAM, 1/2W X 1/4THK W/ ADH	A/R
16	16		9006020-01	SCREW,PAN,PHIL 6-32X 1/4 SS	12
17	17		9006023-01	SCREW,PAN,PHIL 6-32X 7/16 SS	3
18	18		9006036-01	SCREW,PAN,PHIL 8-32X 5/16 SS	4
19	19		9006027-01	SCREW,PAN,PHIL 6-32X 7/8 SS	3
20	20		1013102-00	10 MFD 370VAC 6% PAPER/OIL	1
21	21	D-IA-7012108-0-0	7012108-00	POWER PANEL HARNESS	1
22	22		1215360-00	FILTER,LINE,115/250V,47-400HZ, F	1
23	23		9006633-00	WASHER,LOCK,INT,.2800D X .146ID	11
24	24		1216827-00	CKT BKR 2.5 A 250V 2P MAGNETIC	1
25	25		1209403-01	FAN,115CFM,SLEEVE BRNG	1
26	26	B-IA-7012110-0-0	7012110-00	HARNESS AC-TB	1
27	27		1210263-00	GUARD,FINGER 4.125 X 4.125 MTG H	1
28	28		1613897-00	XFMR P=AB S=11.506A	1
29	29		1110051-00	DM 16 ASSY@200V & 25A #990-3	1
30	30		1013530-00	66,000 MFD 30V +75-10% AL EL	1

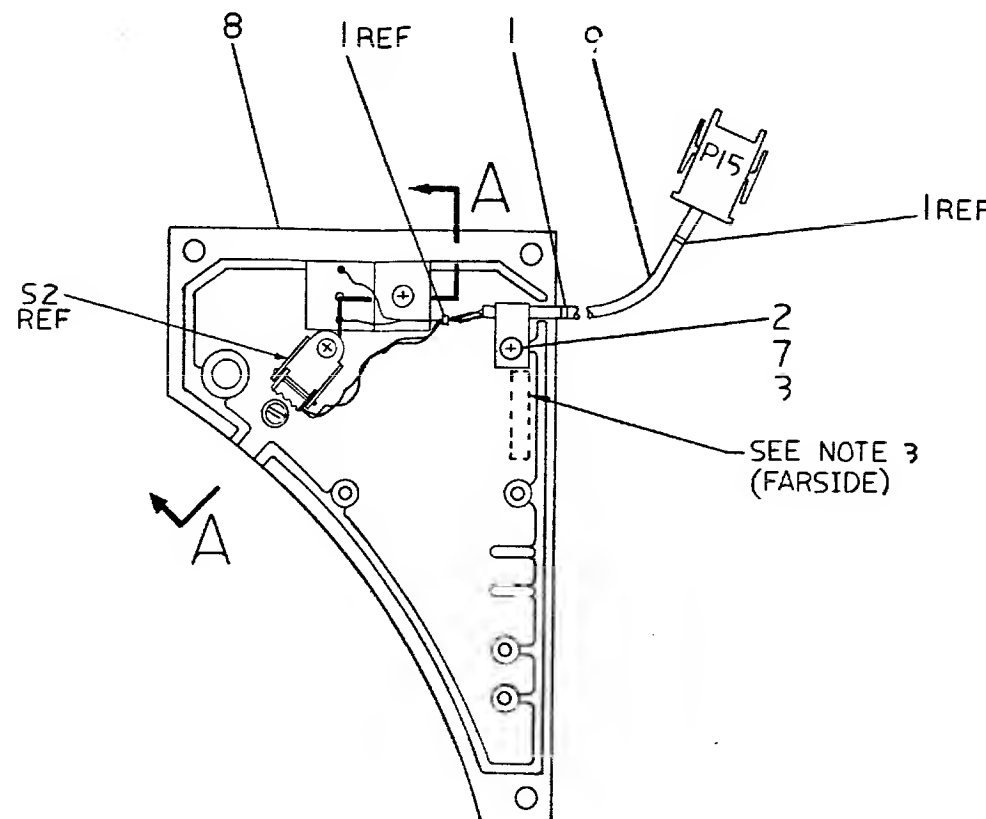
REVISION HISTORY			BASIC PART NO		ORLO1				D I G I T A L				
ENG	ECO NUMBER	REV	SECTION A OF A		DRN:	D. MELCHOIR		DATE: 12-AUG-76					
KG	7012130-CX010	P	SECTION. VARIATION INDEX		CHK'D:	G. SCHNEIDER		DATE: 24-AUG-77		TITLE		PARTS LIST	
KG	RL02-CX008	R	[A] 00							POWER PANEL ASSEMBLY			
KG	7012130-CX011	S											
MZ	RL02-CX010	T	[B]		DES.ENG.:	G. SCHNEIDER		DATE: 24-AUG-77					
KG	7012130-CX012	U											
IW	7012130-CX013	V	[C]		RESP.ENG.:	P. ARNOLD		DATE: 30-AUG-77		DOCUMENT NUMBER			
	<i>12-5-80</i>		[D]							SIZE	CODE	NUMBER	REV
			[E]		MFG.ENG.:	D. RYLANDER		DATE: 30-AUG-77		K	PL	7012130-0-DBP	V
			[F]		ASSEMBLY NUMBER:			TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
					D-AD-7012130-0-0			# B-DD-RL02-0		Z0849V.PLS		17	
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LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION 00
31	31		1013531-00	20,000 MFD 40V +75-10% AL EL	1
32	32	B-IA-7012109-0-0	7012109-00	POWER HARNESS	1
33	33		9006560-00	NUT,KEP , 6-32 X5/16AF	6
34	34	C-IA-7012142-0-0	7012142-00	CABLE	1
35	35	B-IA-7012125-0-0	7012125-0E	INTERCONNECT CABLE	1
36	36	B-IA-7012125-0-0	7012125-0B	TB INTERCONNECTOR HARNESS	1
37	37		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	7
38	38		9009800-06	SCREW,PAN,PHILLIPS, 6X.38	3
39	39		9006635-00	WASHER,LOCK,INT,.3100D X .200ID	4
40	40		9007649-00	WASHER, LOCK, EXTERNAL TOOTH #6	8
41	41		9006021-01	SCREW,PAN,PHIL 6-32X 5/16 SS	4
42	42		1211591-35	CONN,ZIF 40PIN RCPT ASSY	2
43	43		1211591-38	CONN,ZIF 40PIN RCPT,SWAP IN GU	4
44	44		9008301-01	SCREW,PAN,PHIL 4-40X 1/4 SS	4
45	45	B-IA-7017609-0-0	7017609-00	GROUND HARNESS	1
46	46	C-IA-7017608-0-0	7017608-00	GROUND HARNESS	1
47	47		9009255-00	LABEL, POWER SUPPLY, 2-15/16 " L	1
48	48		3612680-00	DECAL, GROUND SIGN PER 3E6 *	2

D I G I T A L			TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
			POWER PANEL ASSEMBLY		K	PL	7012130-0-DBP	V

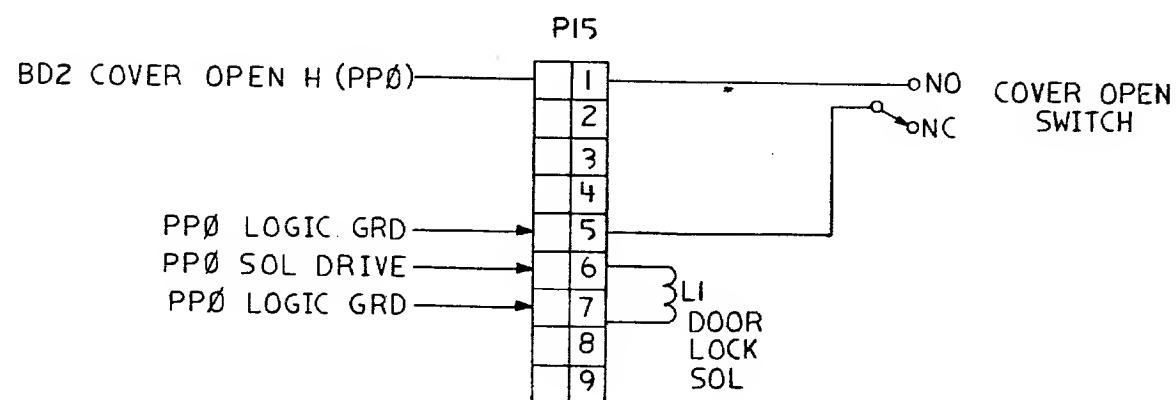


SECTION A-A



NOTES:

1. PLUNGER OF SOLENOID, COVER LOCK (ITEM 5) MUST MOVE FREELY. WHEN ASSEMBLY IS POSITIONED IN "UP" POSITION (TIP OF PLUNGER POINTING UP) A D C VOLTAGE OF 6.9 VOLTS SHALL PULL THE PLUNGER DOWN.
2. CONNECT LEADS OF SOLENOID, COVER LOCK (ITEM 5) TO PINS 6 & 7 OF CONNECTOR BODY (PI5). DRESS WIRES AND TIE TO COVER, SWITCH HARNESS (ITEM 9) WITH TIE, CABLE (ITEM 1) AS SHOWN.
3. PART TO BE MARKED WITH PART NO. (7016991-00) AND LATEST REVISION LETTER IN AREA SHOWN (FARSIDE).



CIRCUIT SCHEMATIC

CAUTION: OFF SHEET PARTS LISTS EXISTS.
SEE K-PL-7016991-0-DBP (Z0984).

REV	ECO NUMBER	DATE
*	RELEASED TO ECO CONTROL PER ECO PLUG-1 CXX/48 AT REV K.D. 1 OCT 80 K. GUENZEL	582

DESCRIPTION	DRAWING NO.	PART NO.	ITEM NO.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114)								
INCHES TOLERANCES	ANGLES ±0°30'	APPLICABLE DIMENSION RANGE (CHECK ONE)						
X = ±.1	SURFACE QUALITY	DIMENSION RANGE IN INCHES						
.XX = ±.02		OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0	OVER 4.0 TO 12.0	OVER 12.0 TO 40.0	OVER 40.0 TO 60.0	
.XXX = ±.005		±.02	±.03	±.05	±.10	±.15	±.20	
QUANTITY & VARIATION	THIRD ANGLE PROJECTION	DATE	DATE	TITLE				
DO NOT SCALE DRAWING	REMOVE BURRS AND BREAK SHARP CORNERS	DATE	DATE	DOCUMENT NUMBER				
MATERIAL	SEE PARTS LIST	DATE	DATE	SCALE				
FINISH	NEXT HIGHER DOC	DATE	DATE	SHEET				

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
					00
1	1		9007031-00	TIE,CABLE BUNDL.DIA 0- 3/4"=101	3
2	2		9009800-06	SCREW,PAN,PHILLIPS, 8X.38	3
3	3		9007081-00	CLAMP,CABLE,SCREW MTD. 1/4"	1
4	4	C-AD-7012132-0-0	7012132-00	CARTRIDGE SENSE SWITCH ASSY.	1
5	5	C-PS-1213204-0-0	1213204-00	SOLENOID,COVER LOCK	1
6	6	B-MD-7416858-0-0	7416858-00	CART SENSE PLUNGER	1
7	7		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1
8	8	E-IA-7415224-0-0	7415224-00	COVER BRUSH DRIVE	1
9	9	C-IA-7017333-0-0	7017333-00	COVER, SWITCH HARNESS	1

REVISION HISTORY		BASIC PART NO: 7016991		DRN:	K. DAVIS	DATE: 1 OCT 80	DIGITAL		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D:	<i>D Miller</i>	DATE: 20 OCT 80	TITLE PARTS LIST		
KG	RL01-CX048 W. MAJOR FOR K. GUENZEL	*	SECTION, VARIATION INDEX	IAJ 00	<i>John Walenta</i>	DATE: 22 OCT 80	SWITCH COVER ASSY		
			IBJ	DES.ENG.:	K. GUENZEL	DATE: 22 OCT 80	DOCUMENT NUMBER		
			ICJ	RESP.ENG.:	<i>John Walenta</i> I. WALENTA	DATE: 22 OCT 80	SIZE	CODE	NUMBER
			IDJ	MFG.ENG.:	<i>John Bland</i> J. BLAND	DATE: 22 OCT 80	K	PL	7016991-0-DBP
			IEJ	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #
			IFJ	ID-AD-7016991-0-0		#B-DD-RL01-0	Z0984*.PLS		6
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COMPONENT SIDE VIEW

60
8PLC'S
MNT ON
SIDE 2

65
2 PLC'S

I-1

I-3

-43,44
45
TYP
3 PLC'S



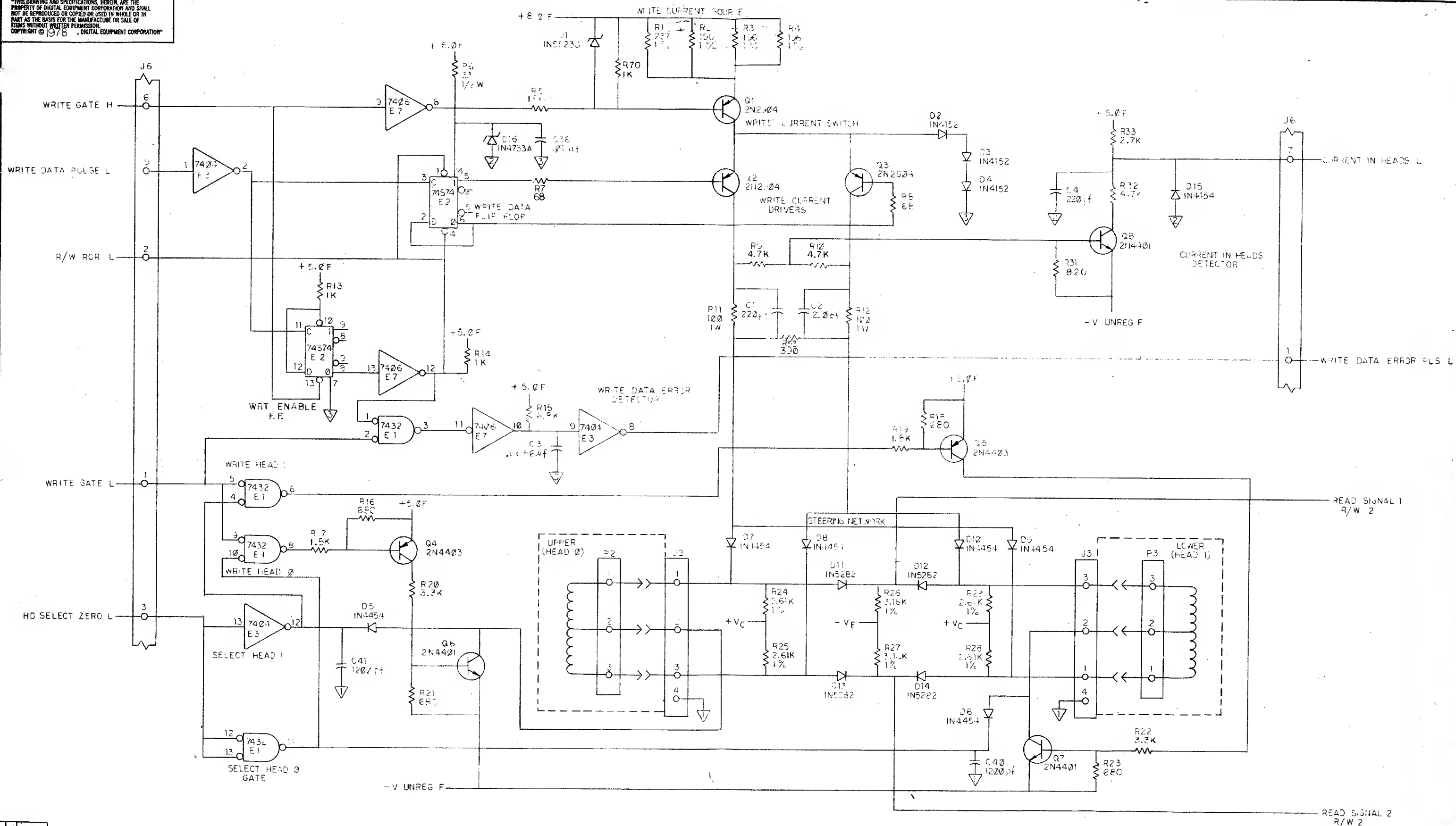
NOTES:

CHK/CHANGE NO	REV
5413536-	B
CX001	
M. ZARICH	
80	

ETCH R/V B
P.C. D SIGN DATA BASE REV. BL

SIGNATURES	DATE	digital
DRN. <i>L. Paine</i>	8/2/75	
CHK'D. <i>L. Paine</i>	8/2/75	
ENG. <i>B. Noguera, BL</i>	8/2/75	
PROJ. ENG. <i>W. J. ...</i>		
PROD. <i>...</i>		
SCALE 2/1		
SHT. 1 OF 2		
NEXT HIGHER ASSY: B-DD-5413536-0		

TITLE RL02	READ/WRITE BOARD
SIZE CODE	NUMBER
0 UA	5413536-0-0
REV	B



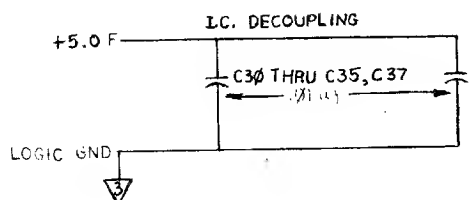
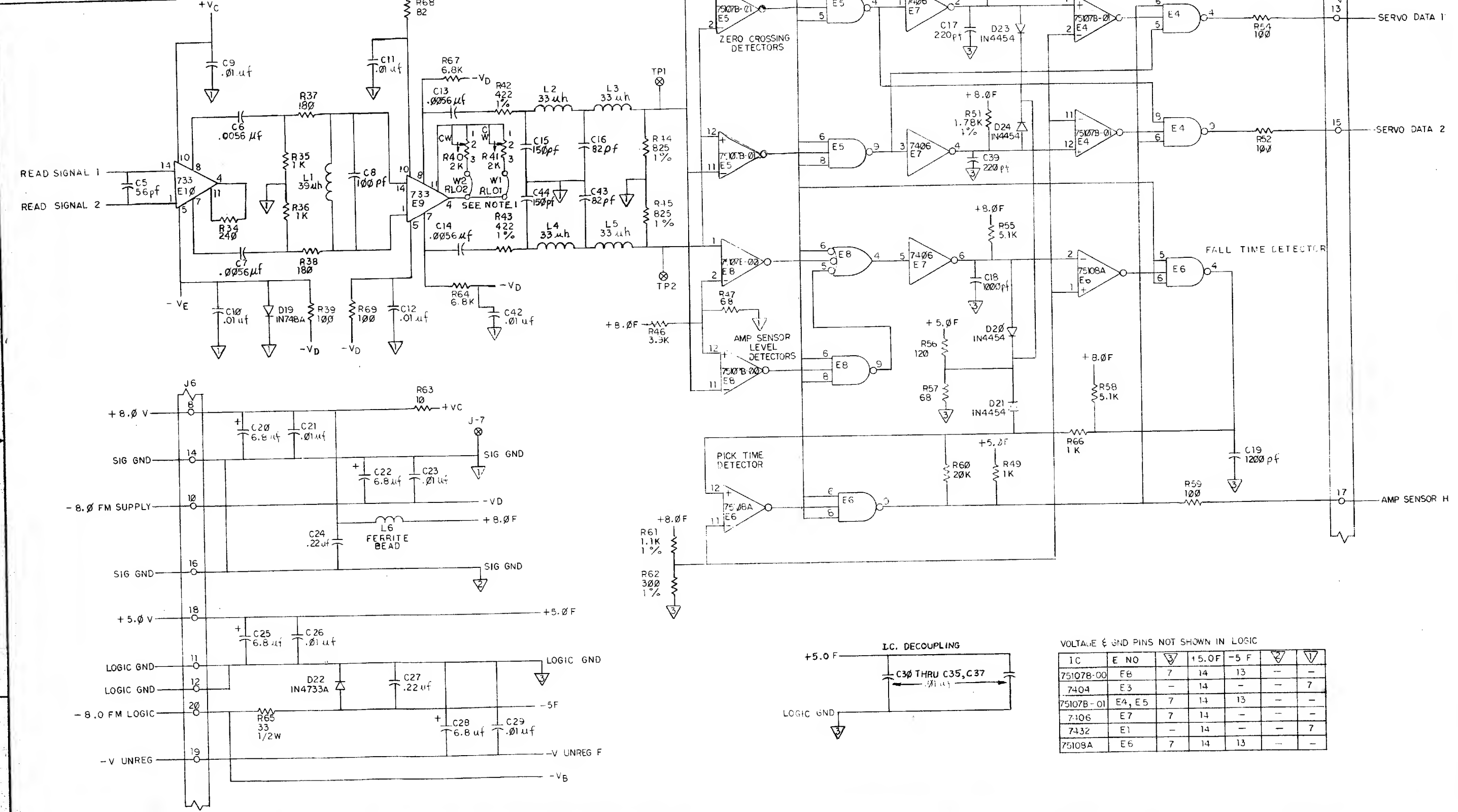
NOTE

1. FOR RLO1 CUT W2 AND LEAVE IN W1
FOR RLO2 CUT W1 AND LEAVE IN W2.

REV.	B
CHG NO.	5413536-CX001
CHG	M. ZARICH
	M. ZARICH WGM.

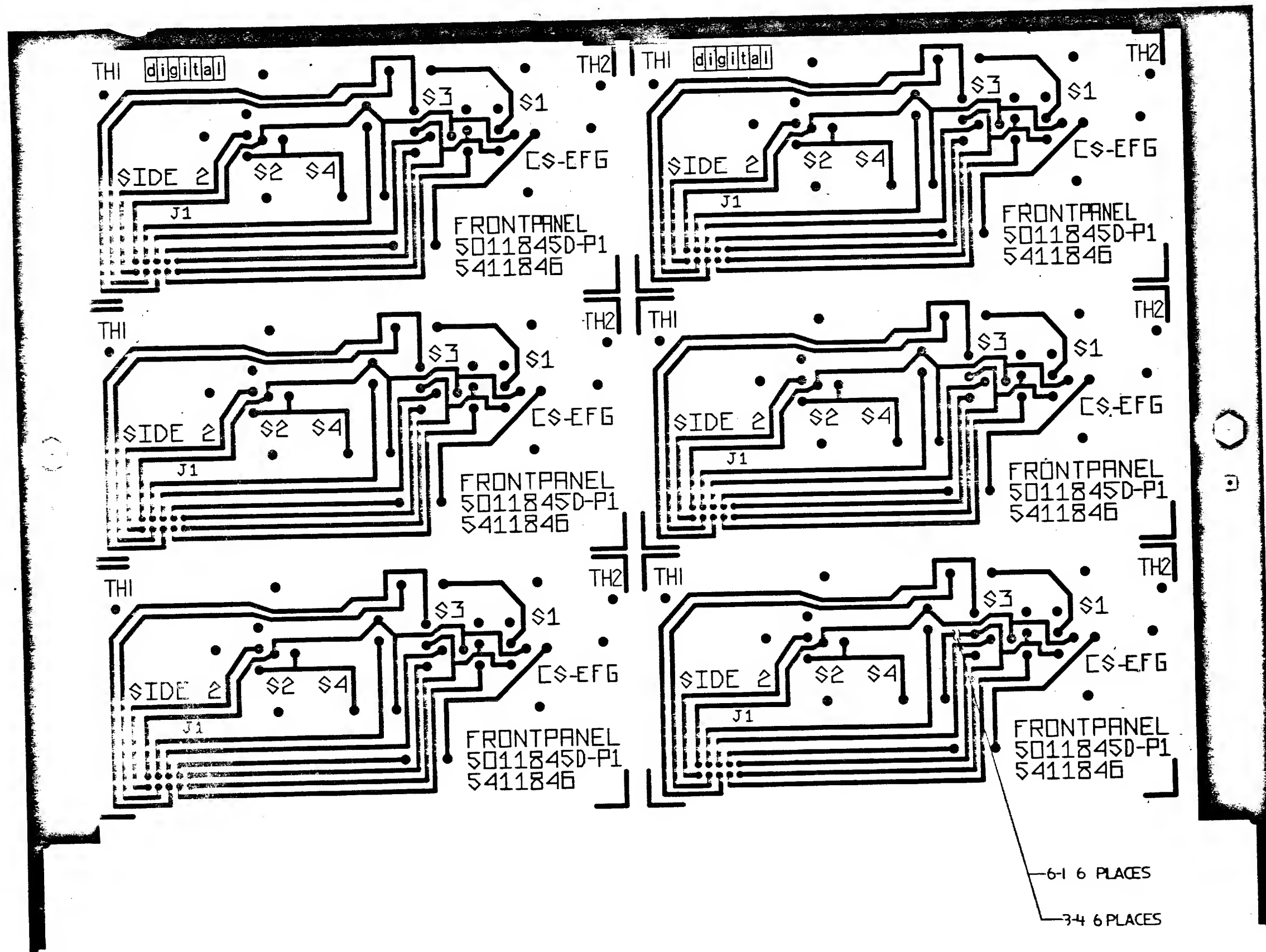
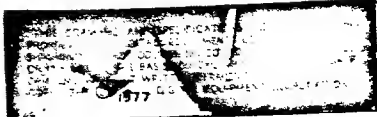
DRN. <i>E. Nichols</i>	<i>1/14/78</i>	FIRST USED ON RL02	digit
CHK'D <i>L. Rahn</i>	<i>3/8/78</i>		
ENG. <i>R. Nichols</i>	<i>4/18/78</i>	TITLE READ / WRITE BOARD	
PROJ. ENG. <i>W. Rahn</i>	<i>6/14/78</i>		
PROD. <i>PCWIBD</i> <i>W. Rahn</i>	<i>9/27/78</i>		
NEXT HIGHER ASSY.			
		SIZE	CODE
SCALE <i>1" = 1"</i>		D	NUMBER
SHEET <i>1</i> OF <i>2</i>		D	CS 5413536-0-1
		DIST.	REV
			8

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VOLTAGE & GND PINS NOT SHOWN IN LOGIC

IC	E NO	7	14	13	7	7
75107B-00	E8	7	14	13	-	-
7404	E3	-	14	-	-	7
75107B-01	E4, E5	7	14	13	-	-
7406	E7	7	14	-	-	-
7432	E1	-	14	-	-	7
75108A	E6	7	14	13	-	-



REV	CHANGE NO	DATE

TITLE		SIZE CODE		REV
FRONT PANEL		D UA 5411846-0-0		J
SCALE	NONE	SHEET	2 OF 3	DIST.

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REWORK INSTRUCTIONS:

ECO 5411846-CX005:

3-1 SEE D-EC-5011845-0-0 FOR EC REWORK INSTRUCTIONS.

COMPONENT DELETES:

3-2 DELETE RI.

COMPONENT ADDS:

3-3 ADD RI (180 μ).

WIRE ADDS:

3-4 SIDE 2-ADD WIRE FROM S3 PIN 2 TO RI ETCH
(SOLDER FLAT TO ETCH) (6 PLACES).

ECO 5411846-CX006:

WIRE DELETES:

6-1 SIDE 2-DELETE WIRE FROM S3 PIN 2 TO RI ETCH.
(6 PLACES).

WIRE ADDS:

6-2 SIDE 1-ADD WIRE ON LEFT SIDE OF RI TO S3 PIN 2.

REVISION HISTORY

DATE	ECO NUMBER	REV.

DOCUMENT NUMBER

SIZE	CODE	NUMBER	REV.
D	UA	5411846-0-0	J
SCALE	NONE	SHEET 3	OF 3

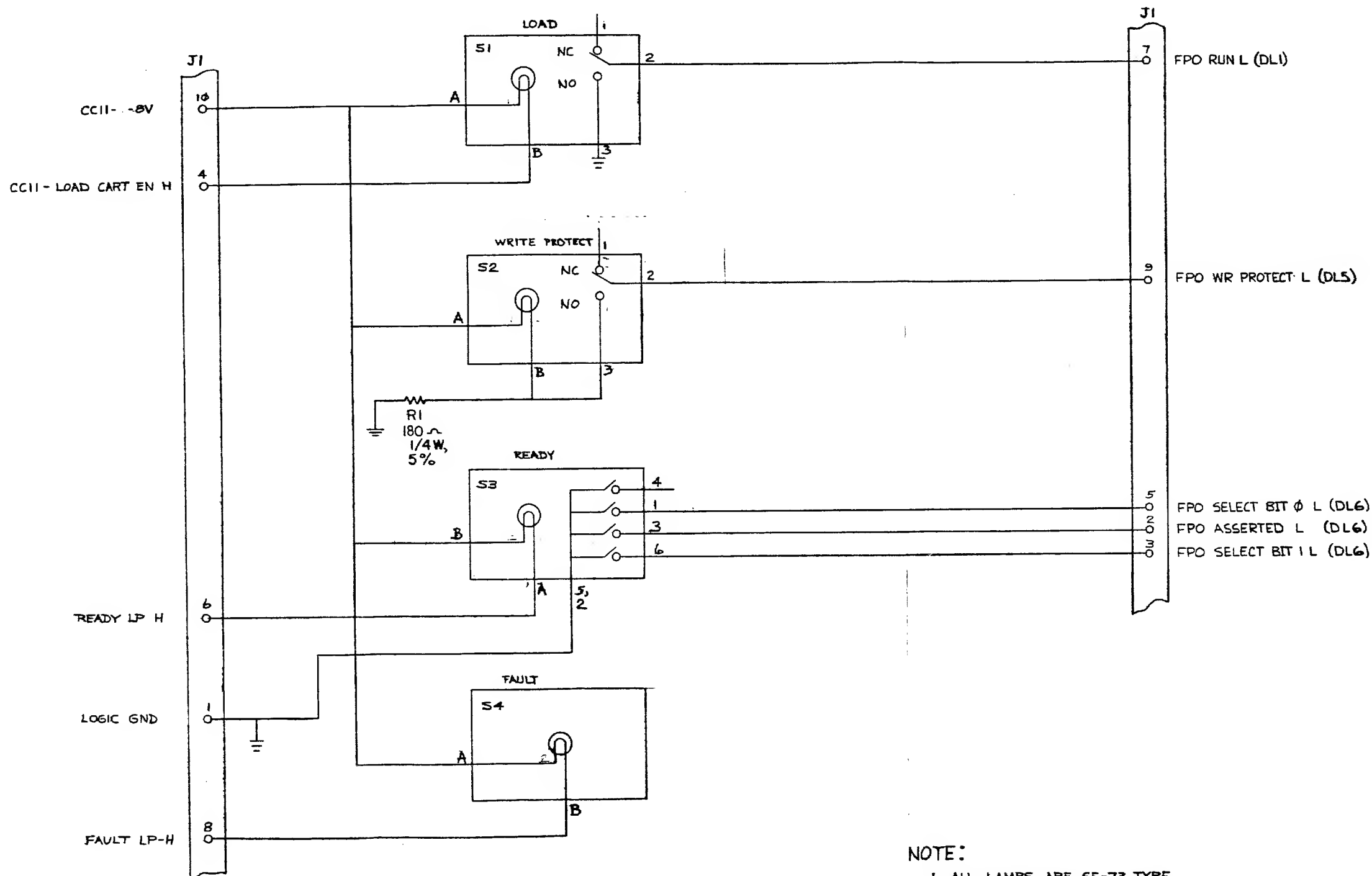
TITLE
FRONT PANEL

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5011845-0-0	5011845-00	54-11846 ETCH CRKT BRD	1	
2	2		1209941-05	HEADER.100 10POS RT ANGLE	1	J1
3	3		1209941-04	HEADER RT ANGLE,RIGHT	1	
4	4		1209941-03	HEADER RT ANGLE LEFT L	1	
5	5		1212690-02	SW,PB 1P RK06 UNIT SELECT	1	S3
6	6		1212691-00	SW,PP CAP "0/READY" FOR 12-1	1	
7	7		1212714-05	SW,PB CAP,YEL/BLK,"LOAD"	1	
8	8		1212714-01	SW,PB CAP,YEL/BLK,"WRITE PROT"	1	
9	9		1212714-02	SW,PB CAP,RED/BLK,"FAULT"	1	
10	10		1212715-02	INDICATOR,DISPLAY PANEL,W/14V LA	1	S4
11	11		1212717-05	SW,PB 1P 3A W/14V LAMP	2	S1,S2
12	12		1212716-01	LAMP,WEDGE,14V	1	
13	13		1213188-01	MOUNTING BRACKET,SWITCH	1	
14	14		1301322-00	180.0 .25 W 5.0 % CC	1	R1
15	15		9006732-00	EYELET, ROLLED FLANGE, .121 OD X	2	
16	16		9107560-01	WIRE,BUSS,22AWG	2	W1,W2
17	17		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	2	

REVISION HISTORY			BASIC PART NO: 5411846			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	DRN:	S. MARLOW	DATE: 7-APR-76		
MZ	5411846-CX005	J	SECTION VARIATION INDEX	CHK'D:	P. BURNELL	DATE: 10-JAN-77	TITLE	PARTS LIST
			EAJ 00				FRONT PANEL	
			EBJ	DES.ENG:	G. REICHENBERG	DATE: 7-MAR-77		
			ECJ				DOCUMENT NUMBER	
			EDJ	RESP.ENG.:	G. REICHENBERG	DATE: 7-MAR-77		
			EEJ				SIZE CODE	NUMBER
			EFJ					REV
			EHJ	MFG.ENG.:	L. KIRK	DATE: 9-MAR-77	K	PL
			EIJ					5411846-0-DBP
			EJJ					J
			EKL	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:	EDIT #
			ELJ	D-UA-5411846-0-0		* B-DD-5411846-0	Z1580J.PLS	3
			EMJ					
			ENJ					

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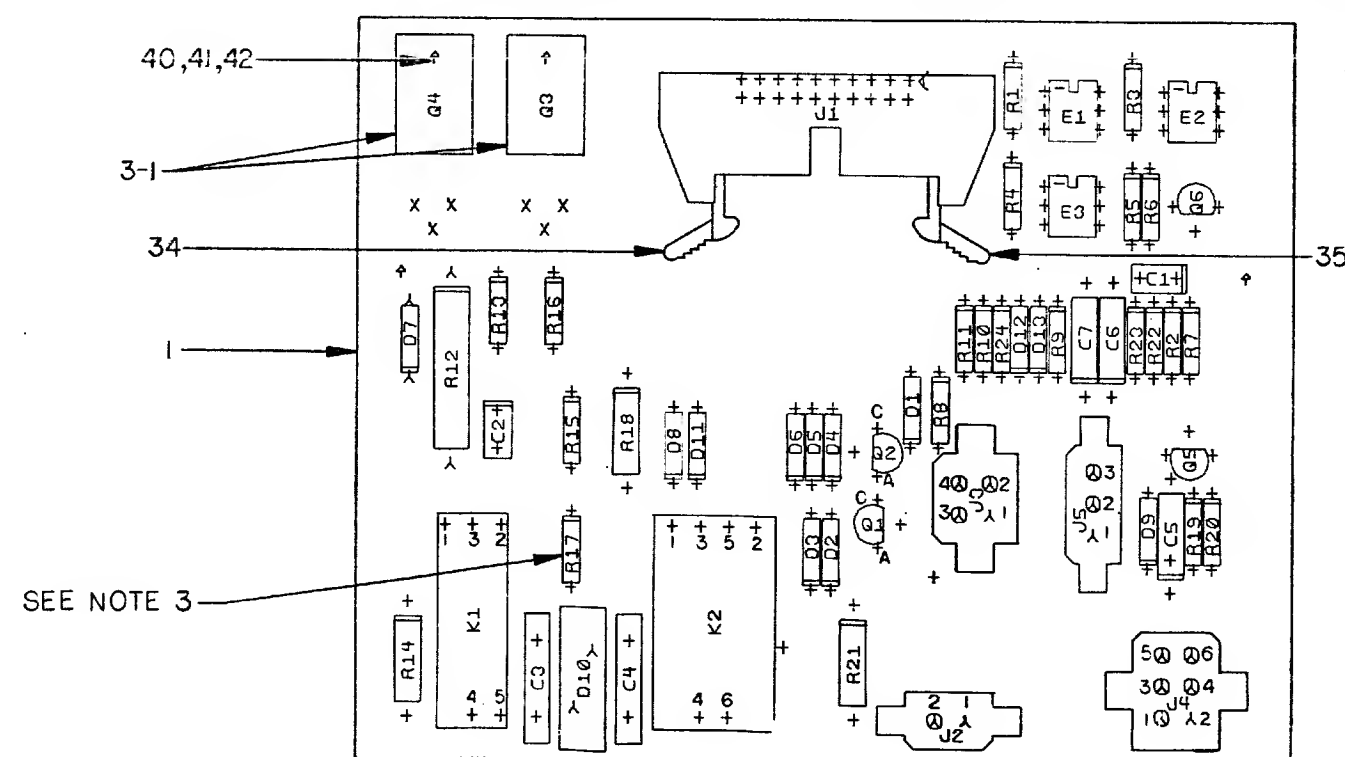


NOTE:
1. ALL LAMPS ARE 6E-73 TYPE

REV.	CHG. NO.	REV.
1	5411841-0001	E
2	5411841-0002	F
3	5411841-0003	G
4	5411841-0004	H
5	5411841-0005	I
6	5411841-0006	J
7	5411841-0007	K

DRN. <i>11-11-77</i>	FIRST USED ON	<i>digital</i>
CHK'D <i>11-11-77</i>	TITLE	FRONT PANEL
ENG. <i>11-11-77</i>	SIZE	D
PROJ. ENG. <i>11-11-77</i>	CODE	CS
PROD. <i>11-11-77</i>	NUMBER	5411846-0-1
NEXT HIGHER ASSY.	DIST.	
SCALE	REV.	K
SHEET 1 OF 1		

COMPONENT SIDE VIEW



CHK	CHANGE NO	REV
	5411848-0001	D
	P. BURNELL	
	O-10 G.	
	777 REICHENBERG	
	N.M. 5411848-	E
	0. CX002	
	VAR P. BURNELL	
	N.M. 5411848-	F
	8 CZ 003	
	VAR M ZARICH	
	779 REDRAWN	
	5 JUNE 80	

[illegible]

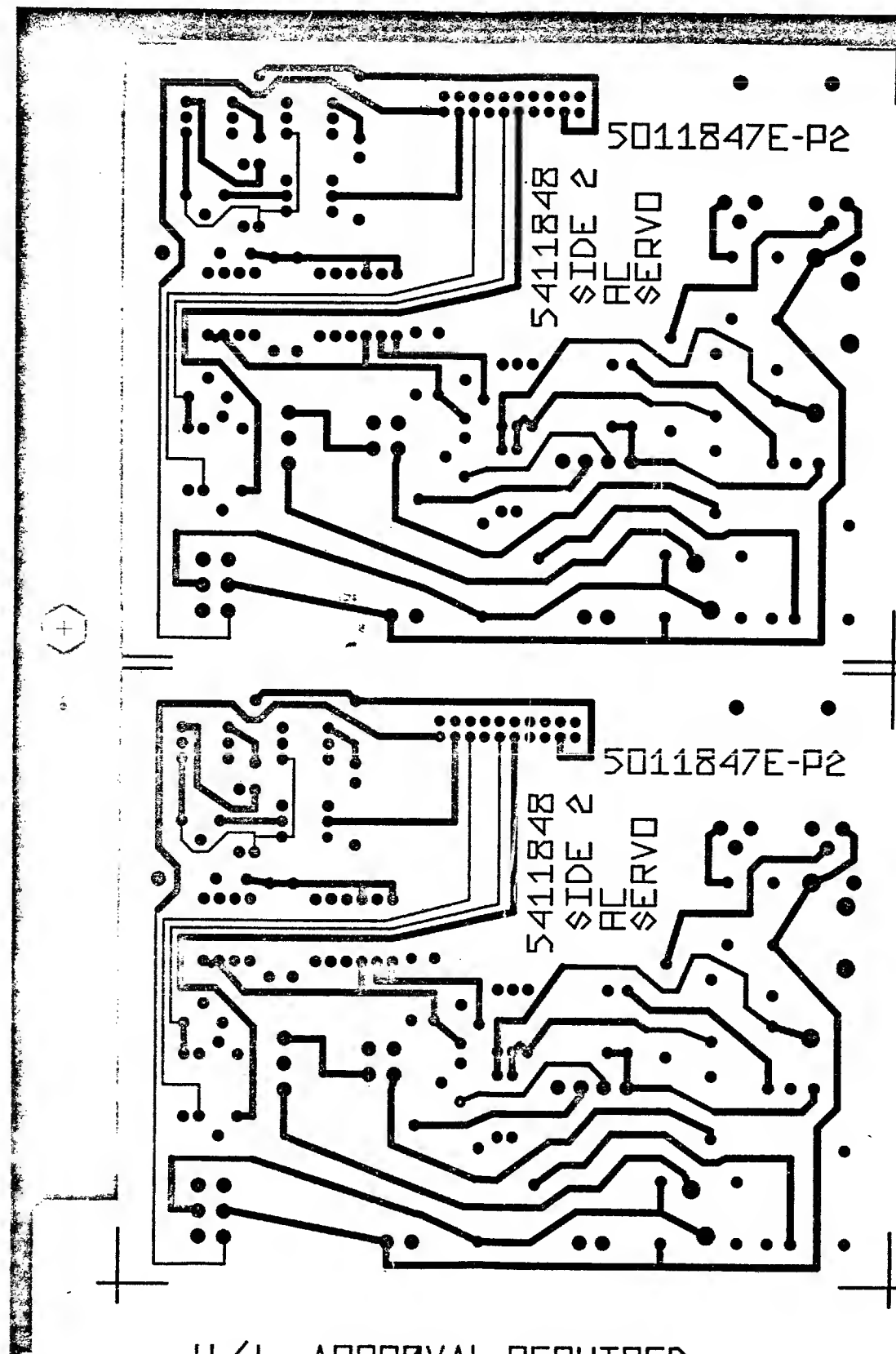
SIGNATURES		DATE	digital	
DRN. T. SHETRAWSKI		6-9-77		
CHK'D T. SHETRAWSKI		15-9-77		
MECH. ENG. G. RIECHENBERG		26-9-77	TITLE AC	
PROJ. ENG. P. ARNOLD		26-9-77	SERVO	
PROD. R. STROTT		26-9-77		
SCALE 2/1		SIZE CODE	NUMBER	REF
SHT. 1 OF 4		0	UA 5411848-0-0	F
NEXT HIGH PESS. B - DD - 5411848-0				



REVISIONS		
CHK	CHANGE NO	REV

TITLE		SIZE	CODE	NUMBER	REV
AC SERVO		D	0	1548 0-0	F
SCALE	2:1	SHEET	OF 4		

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U/L APPROVAL REQUIRED

VIEWED FROM SIDE 2

REVISIONS		
CHK	CHANGE NO	REV

SEE FORM NO. DRD 137

TITLE		SIZE CODE	NUMBER		REV.
AC SERVO		DUA	5411848	-0-0	F
SCALE	2:1	SHEET	5	OF	4
DIST.					

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REWORK INSTRUCTIONS

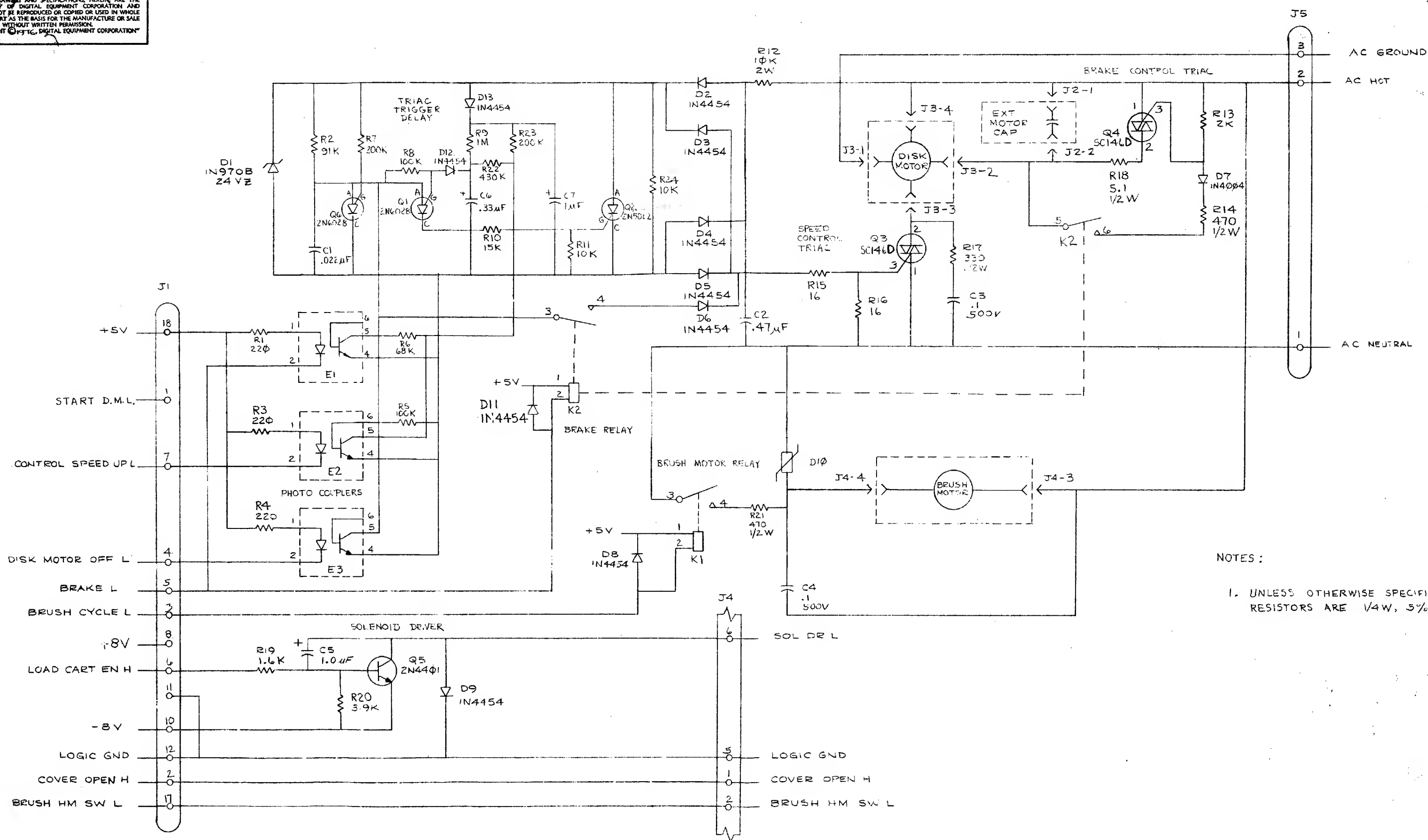
3-1. CHANGE Q3 AND Q4 TO 1510070-00, ITEM 38.

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE/CODE	NUMBER	REV.
AC SERVO		D UA	5411848-0-0	F
SCALE		SHEET 4 OF 4		DIST.

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5011847-0-0	5011847-00	ETCH CRKT BRD	1
2	2		1011683-00	.022 MFD 50V 1% 67 CER.	1
3	3		1012312-01	.47 MFD 50V X% 2	C1
4	4		1013682-00	.1 MFD 500V +80 -20% CER.	2
5	5		1001776-00	1 MFD 35V 10% S.TANT	2
6	6		1110856-00	1N 970B VZ= 24.0 5% .40W Y	1
7	7		1111577-00	1N 4454 TR= 4NS PIV= 50 S	10
8	8		1105796-00	1N 4004 FIV=400 I= 1A D041 SP	1
9	9		1510727-01	OPTO COUPLED ISOLATOR	3
10	10		1213917-00	RLY, REED 5V COIL, DPDT	1
11	11		1213915-00	RLY, REED, 5V COIL, SPDT	1
12	12		1110997-00	VP 130A10 VOLT, SUPPRESS. 130VAC	1
13	13		1209941-06	HEADER. 100 20POS RT ANGLE	1
14	14		1213922-00	HEADER 2POS	1
15	15		1213922-01	HEADER 3POS	1
16	16		1213922-03	HEADER 4POS	1
17	17		1213922-04	HEADER 6POS	1
18	18		1300315-00	470 1/2W 5%	CC 2
19	19		1300271-00	220 1/4W 5%	CC 3
20	20		1311220-00	5.1 1/2W 5%	CC 1
21	21		1301327-00	68 K 1/4W 5%	CC 1
22	22		1302466-00	100 K 1/4W 5%	CC 2
23	23		1300444-00	3.9 K 1/4W 5%	CC 1
24	24		1314516-00	200 K 1/4W 5%	CC 2
25	25		1300496-00	15 K 1/4W 5%	CC 1
26	26		1300479-00	10 K 1/4W 5%	CC 2
27	27		1300482-00	10 K 2W 10%	CC 1
28	28		1312927-00	16 1/4W 5%	CC 2
29	29		1314649-00	430 K 1/4W 5%	CC 1

REVISION HISTORY			BASIC PART NO: 5411848			IRN: H. RICHER			DATE: 23 MAR 76			DIGITAL				
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D:	P. BURNELL	DATE: 10 JAN 77	TITLE		PARTS LIST					
	INITIAL	E	SECTION VARIATION INDEX						AC SERVO							
10ZM	5411848-CZ003	F	CAJ-00			DES.ENG:	P. BADUM	DATE: 7 JUN 77								
18APR 79			CBJ													
			CCJ													
			CDJ													
			CEJ								DOCUMENT NUMBER					
			CFJ			RESP.ENG.:	P. BADUM	DATE: 7 JUN 77								
			CHJ						SIZE CODE NUMBER		REV					
			CJJ													
			CKJ			MFG.ENG.:	D. LESAGE	DATE: 7 JUN 77	K	PL	5411848-0-DBP	F				
			CLJ													
			CMJ			ASSEMBLY NUMBER:			FILE NAME:		EDIT #					
			CNJ			D-UA-5411848-0-0			Z0491.PLS		3					



NOTES:

1. UNLESS OTHERWISE SPECIFIED:
RESISTORS ARE 1/4W, 5%

REVISIONS		CHNG NO.	REV.
08	RELEASED AT REV C EQUAL TO C1 R1'S FIELD		C
09	SERVICE ANNO- TATION		
28	5411948-0001 D		D
	PHYLLIS BURNELL		
	G. REICHENBERG		
	<i>Phyllis Burnell</i>		
	5411948-02062		E
	<i>Phyllis Burnell</i>		
	5411948-02063		F
	M. ZARICH		
	<i>M. Zarich</i>		

DRN. <i>211111</i>	<i>3/16/76</i>	FIRST USED ON	<i>RLO1</i>	digit
CHK'D <i>2 Bunch</i>	<i>1-1-77</i>	TITLE	AC SERVO	
ENG. <i>2 Bunch</i>	<i>6-8-77</i>			
PROJ. ENG. <i>211111</i>	<i>6/1/77</i>			
PROD. <i>211111</i>	<i>9/1/77</i>			
NEXT HIGHER ASSY.				
D-VA-5411848-0-0		SIZE	CODE	NUMBER
SCALE <i>+</i>		D	CS	5411848-0-1
SHEET <i>1</i>	OF <i>1</i>	DIS.		

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
1	1	D-MD-5013533-0-0	5013533-00	ETCHED CIRCUIT BOARD	1
2	2		680.0 MMF 50V 10% CER.	1	C12
3	3		2200 MMF 50V 5% CER.	1	C7
4	4		1001610-00	.01 MFD 50V -20+80 Z5U AXIAL	4
5	5		1002630-00	.015 MFD 100V 10% 663UW MYLR	1
6	6		1013466-11	.22 MFD 50V +80/-20% CER.	4
7	7		1005306-00	6.8MFD 35V 10% S.TANT	4
8	8		1000076-00	39 MFD 10V 10% 150D S.TA	1
9	9		1309422-00	5.1 1/4W 5% CC	1
10	10		1312929-00	62 1/4W 5% CC	2
11	11		1311523-00	110 1/4W 5% CC	1
12	12		1300247-00	120 1/4W 5% CC	1
13	13		1300271-00	220 1/4W 5% CC	1
14	14		1301425-00	300 1/4W 5% CC	1
15	15		1303178-00	620 1/4W 5% CC	1
16	16		1300365-00	1 K 1/4W 5% CC	5
17	17		1300391-00	1.5 K 1/4W 5% CC	1
18	18		1302388-00	2 K 1/4W 5% CC	2
19	19		1300426-00	2.7 K 1/4W 5% CC	2
20	20		1302389-00	4.3 K 1/4W 5% CC	1
21	21		1300447-00	4.7 K 1/4W 5% CC	10
22	22		1303179-00	8.2 K 1/4W 5% CC	3
23	23		1300488-00	12 K 1/4W 5% CC	4
24	24		1305346-00	27 K 1/4W 5% CC	1
25	25		1305131-00	*** THIS ITEM IS NOT USED ***	-
26	26		1312923-00	2.10 K 1/4W 1% RN55D-F 100PPM	1
27	27		1305114-00	3.48 K 1/4W 1% RN55D-F 100PPM	1
28	28		1314763-00	4.12 K 1/4W 1% RN55D-F 100PPM	1
29	29		1303312-00	10.0 K 1/4W 1% RN55D-F 100PPM	3

CONT

R10-R12,R14,R15,R19,R20,R24,R49,
R68
R9,R16,R17
R25,R26,R45,R56
R21
R41
R34
R36
R28,R29,R62

REVISION HISTORY			BASIC PART NO: 5413534			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: JERRY BEST	DATE: 26-JUL-78	TITLE PARTS LIST		
INIT		A	SECTION VARIATION INDEX	CHK'D: JERRY BEST	DATE: 26-JUL-78	D.C. SERVO AND POWER SUPPLY		
BN	5413534-CZ001	B	[A] 00	DES.ENG: R. NOGUCHI	DATE:	DOCUMENT NUMBER		
			[B]	RESP.ENG.: R. NOGUCHI	DATE: 26-JUL-78	SIZE	CODE	NUMBER
			[C]					REV
			[D]	MFG.ENG.: P. CHURCH	DATE:	K	PL	5413534-0-DBP
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:		EDIT #
			[F]	10-0A-5413534-0-0	10L02	Z0494B.PLS		13
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
30	30	1312924-00	10.7 K 1/4W 1% RN55D-F 100PPM	1	R32
31	31	1309412-00	18.2 K 1/4W 1% RN55D-F 100PPM	1	R33
32	32	1315436-00	52.3 K 1/4W 1% RN55D-F 100PPM	1	R54
33	33	1304843-00	243 K 1/4W 1% RN55D-F 100PPM	1	R72
34	34	1315437-00	237 K 1/4W 1% RN55D-F 100PPM	1	R38
35	35	1302378-00	51 1/2W 5% CC	1	R51
36	36	1300364-00	1 K 1/2W 5% CC	2	R18,R48
37	37	1314068-00	360 1W 5% CC	1	R4
38	38	1300368-00	1 K 1W 5% CC	1	R8
39	39	1301494-00	200 2W 5% CC	1	R50
40	40	1313358-00	.2 5W 3% WW	2	R2,R52
41	41	1105796-00	1N 4004 PIV=400 I= 1A D041 SP	3	D1,D2,D5
42	42	1113953-00	1N 5523D VZ= 5.1 1% .40W P	8	D4,D6,D8,D9,D16,D18,D21,D22
43	43	1109990-00	1N 757A VZ= 9.1 5% .40W P	2	D23,D24
44	44	1110994-00	1N 751A VZ= 5.1 5% .40W	1	D14
45	45	1114117-00	1N 4152 PIV=450 I=75M	6	D3,D7,D10,D11,D12,D13
46	46	1111577-00	1N 4454 TR= 4NS PIV= 50 S	6	D15,D17,D20,D25-D27
47	47	1513698-00	TRIACQ200V,1-14A	1	D19
48	48	9009597-00	INSULATOR, THERMA-FILM \$	1	
49	49	1513489-00	2N 4401 NPN 350MW SI 40 20	4	R2,R4,R8,R9
50	50	1513490-00	2N 4403 PNP 350MW SI-40 30	6	R1,R3,R5-R7,R11
51	51	1511282-00	MJ2500 PNP 150WC SI 60 5 1K 5A	2	E4,E6
52	52	1511349-00	TIP 640 (OR MJ3000) NPN DARLNGT	1	E3
53	53	1911706-00	5012 ANALOG SWITCH,4CHNL	1	E8
54	54	1912818-00	LS38 NAND BUFFER-QUAD 2IN	1	E10
55	55	1912107-01	324ANDP AMP,QUAD	1	E7
56	56	1913695-00	7808 VOLT.REG.FIX +	1	E9
57	57	1913694-00	7908 VOLT.REG.FIX -	1	E5
58	58	9008419-00	WASHER, FLAT, THERMAFILM .002THK	5	
59	59	7418595-00	HEATSINK ASSEMBLY	1	
60	60	9008033-01	SCREW,PAN ,PHIL, 4-40X 9/16	11	
61	61	9006557-00	NUT,KEP , 4-40X 1/4 AF	11	
62	62	9006655-00	WASHER, FLAT, .312 O.D. X .125 I	11	
63	63	9008268-00	COMPOUND, THERMAL JOINT \$	A/R	
64	64	1210824-00	THERMOSTAT,Q0215,C0156,SPST	1	S1
65	65	9008185-00	NUT,KEP , 6-32X1/4 AF	1	
66	66	9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1	
67	67	1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1	F1
68	68	9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	6	TP13-TP18
69	69	9007791-00	TERM PCB 2POS SOLDER,TURRET	13	TP0-TP12
70	70	1213922-01	HEADER 3POS	1	J1
71	71	1213922-04	HEADER 6POS	1	J2
72	72	1213900-00	CONN,RCPT 6PIN	1	J3
73	73	1209941-06	HEADER,100 20POS RT ANGLE	1	J4
74	74	1209941-04	HEADER RT ANGLE,RIGHT	1	
75	75	1209941-03	HEADER RT ANGLE LEFT L	1	
76	76	1305324-00	4.99 K 1/4W 1% RN55D-F 100PPM	2	R37,R30
77	77	1300250-00	150 1/4W 5% CC	1	R42

D I G I T A L			TITLE			SECTION A OF A			SIZE CODE DOCUMENT NUMBER REV		
									K PL 5413534-0-DBP	B	

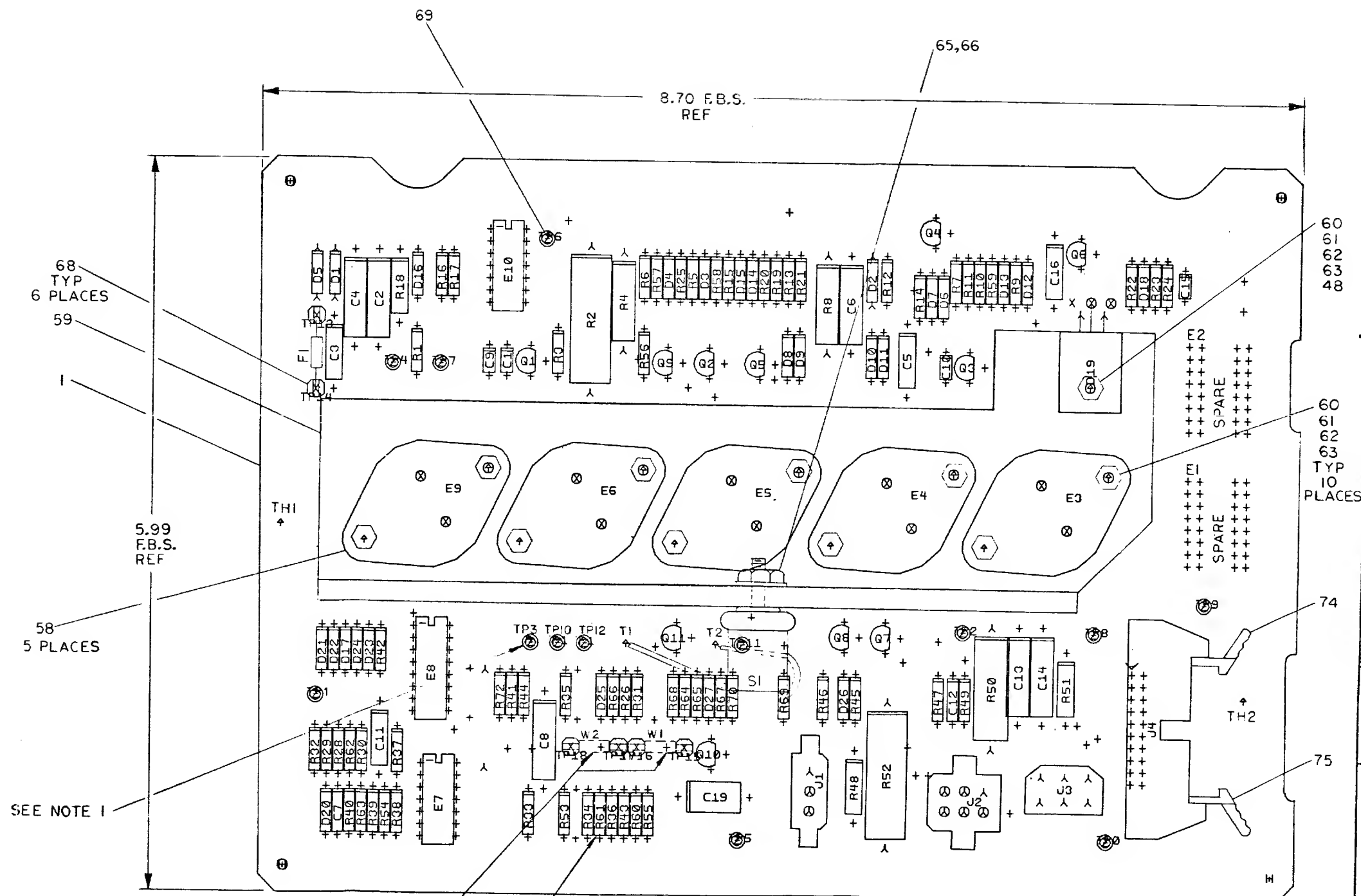
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P A R T S L I S T

SHEET A3 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
78	78		1312618-00	16.9 K 1/4W 1% RN55D-F 100PPM	1	R40
79	79		1300229-00	100 1/4W 5% CC	1	R63
80	80		1305336-00	*** THIS ITEM IS NOT USED ***	-	
81	81		1309416-00	31.6 K 1/4W 1% RN55D-F 100PPM	1	R65
82	82		1015574-01	*** THIS ITEM IS NOT USED ***	-	
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		1303044-00	100 K 1/4W 1% RN55D-F 100PPM	1	R64
85	85		1015574-00	*** THIS ITEM IS NOT USED ***	-	
86	86		1315435-00	25.5 K 1/4W 1% RN55D-F 100PPM	1	R66
87	87		1312930-00	5.1 K 1/4W 5% CC	1	R67
88	88		1015520-00	1 MFD 100V 5% M.POLYESTER	1	C19
89	89		1513697-00	2N 5640 FET N CHNNL	1	Q10
90	90		1300479-00	10 K 1/4W 5% CC	1	R69
91	91		1302466-00	100 K 1/4W 5% CC	1	R70

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							D.C. SERVO AND POWER SUPPLY		K	PL	5413534-0-DBP	B



- NOTES:
1. TP3, TP10, TP12 & TP15 THRU TP18 TO BE MOUNTED ON SIDE 2.
 2. R60 AND R61 ARE TO BE INSTALLED AFTER FINAL TEST.
 3. INSTALL W1 AND W2 FOR RL01. INSTALL W2 ONLY FOR RL22. W1 & W2 ARE LOCATED ON SIDE 2.

CHK	CHANGE NO	REV	BY	DATE
	8			
	5413534-C000		BOB NOGUCHI	
	5413534-C001		M. J. J. J.	
	5413534-C002		M. J. J. J.	
	5413534-C003		M. J. J. J.	
	5413534-C004		M. J. J. J.	
	5413534-C005		M. J. J. J.	
	5413534-C006		M. J. J. J.	
	5413534-C007		M. J. J. J.	
	5413534-C008		M. J. J. J.	
	5413534-C009		M. J. J. J.	
	5413534-C010		M. J. J. J.	
	5413534-C011		M. J. J. J.	
	5413534-C012		M. J. J. J.	
	5413534-C013		M. J. J. J.	
	5413534-C014		M. J. J. J.	
	5413534-C015		M. J. J. J.	
	5413534-C016		M. J. J. J.	
	5413534-C017		M. J. J. J.	
	5413534-C018		M. J. J. J.	
	5413534-C019		M. J. J. J.	
	5413534-C020		M. J. J. J.	

SEE NOTE 3
SEE NOTE 2

ETCH REV. E
P.C. DESIGN DATA BASE REV. EL

SIGNATURES	DATE	TITLE
DRN. <i>[Signature]</i>	11/1/70	DC SERVO & POWER SUPPLY
CHK'D. <i>[Signature]</i>		
ENG. <i>[Signature]</i>		
PROJ. ENG. <i>[Signature]</i>		
PROD. <i>[Signature]</i>		
SCALE 2/1		
SHT. 1 OF 1		
NEXT HIGHER ASSY. E-00-5413534-1		

digital

DC SERVO & POWER SUPPLY

SIZE CODE NUMBER REV

D UA 5413534-0-0 C

SHEET A1 OF A3

REVISION HISTORY			BASIC PART NO: 5413534		DRN: JERRY BEST		DATE: 26-JUL-78		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A		CHK'D: JERRY BEST		DATE: 26-JUL-78		TITLE		PARTS LIST	
	INIT	A	SECTION VARIATION INDEX		CHK'D: JERRY BEST		DATE: 26-JUL-78		D.C. SERVO AND POWER SUPPLY			
BN	5413534-CZ001	B	[A]	00								
MZ	5413534-CX003	C	[B]		DES.ENG: R. NOGUCHI		DATE:					
			[C]									
			[D]		RESP.ENG.: R. NOGUCHI		DATE: 26-JUL-78		DOCUMENT NUMBER			
			[E]									
			[F]						SIZE CODE NUMBER		REV	
			[G]		MFG.ENG.: P. CHURCH		DATE:		K PL 5413534-0-DBP		C	
			[H]									
			[I]		ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:		EDIT #	
			[J]		D-UA-5413534-9-0		RL02		Z0494C.PLS		18	
			[K]									
			[L]									
			[M]									
			[N]									

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SHEET A2 OF A3

D	I	G	I	T	A	L	TITLE	D.C. SERVO AND POWER SUPPLY	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5413534-0-DBP	C

LINE	ITEM	DOCUMENT	NUMBER
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PART NUMBER

DESCRIPTION

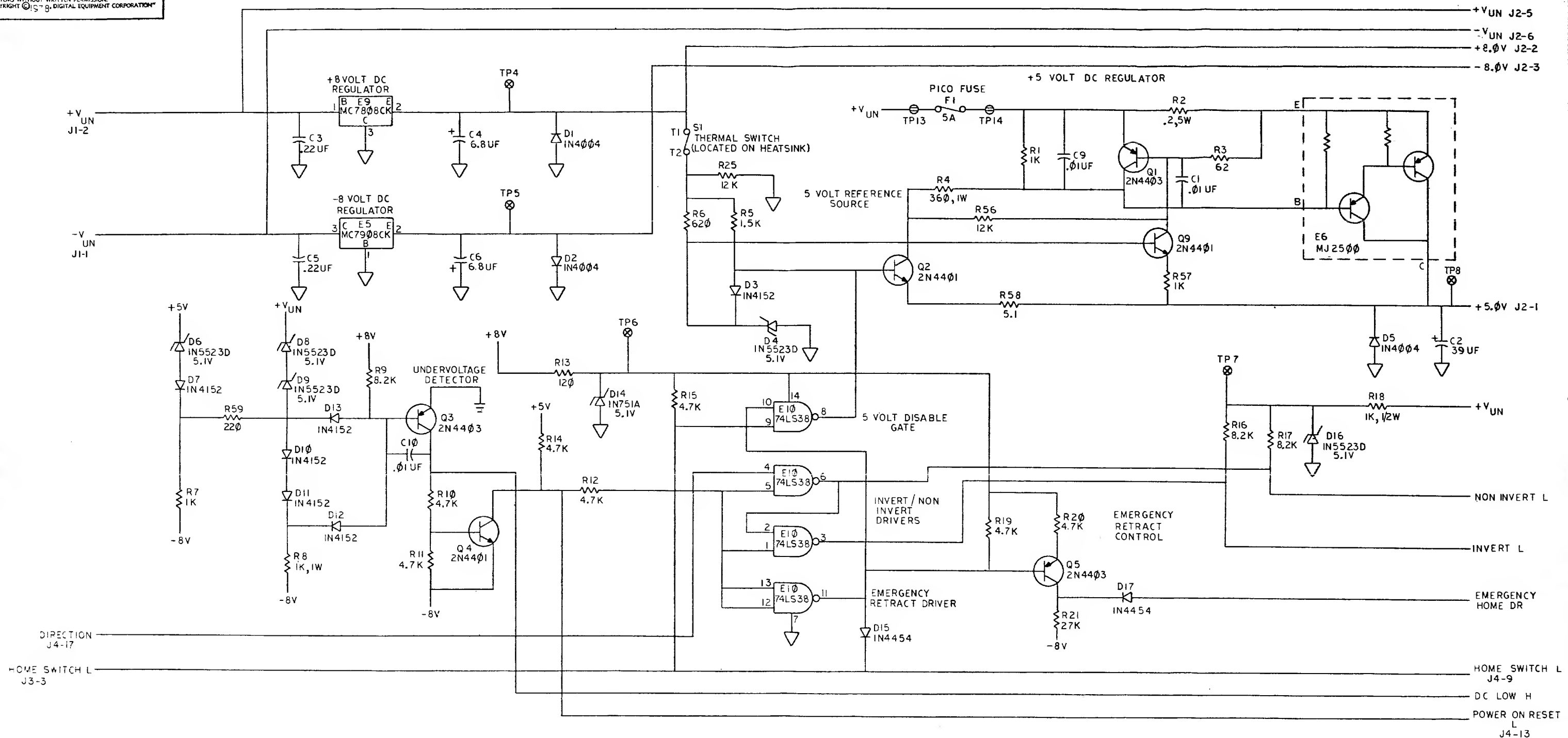
QTY PER VARIATION
00

REFERENCE DESIGNATOR

78	78	1312618-00	16.90 K	.25 W 1.0 %	RN55D-F10	1	R40
79	79	1300229-00	100.0	.25 W 5.0 %	CC	1	R63
80	80	1305336-00	*** THIS	ITEM IS NOT USED	***	-	
81	81	1309416-00	31.60 K	.25 W 1.0 %	RN55D-F10	1	R65
82	82	1002781-00	100 MFD	25V +75-10%	AL EL	1	C20
83	83	9009185-00	JUMPER, WIRE,	INSULATED,	BLACK B	2	W1, W2
84	84	1303044-00	100.0 K	.25 W 1.0 %	RN55D-F10	1	R64
85	85	1015574-00	*** THIS	ITEM IS NOT USED	***	-	
86	86	1315435-00	25.50 K	.25 W 1.0 %	RN55D-F10	1	R66
87	87	1312930-00	5.10 K	.25 W 5.0 %	CC	1	R67
88	88	1015520-00	1 MFD	100V 5%	MET. MYLR	1	C19
89	89	1513697-00	2N 5640	FET	N CHNNL	1	Q10
90	90	1300479-00	10.0 K	.25 W 5.0 %	CC	1	R69
91	91	1302466-00	100.0 K	.25 W 5.0 %	CC	1	R70
92	92	9105740-55	WIRE(WRAP)30AWG		UL1423	A/R	

! D ! I ! G ! I ! T ! A ! L !	! TITLE	! SECTION A OF A	! SIZE ! CODE !	! DOCUMENT NUMBER	! REV
	D.C. SERVO AND POWER SUPPLY		K ! PL	5413534-0-DBP	C

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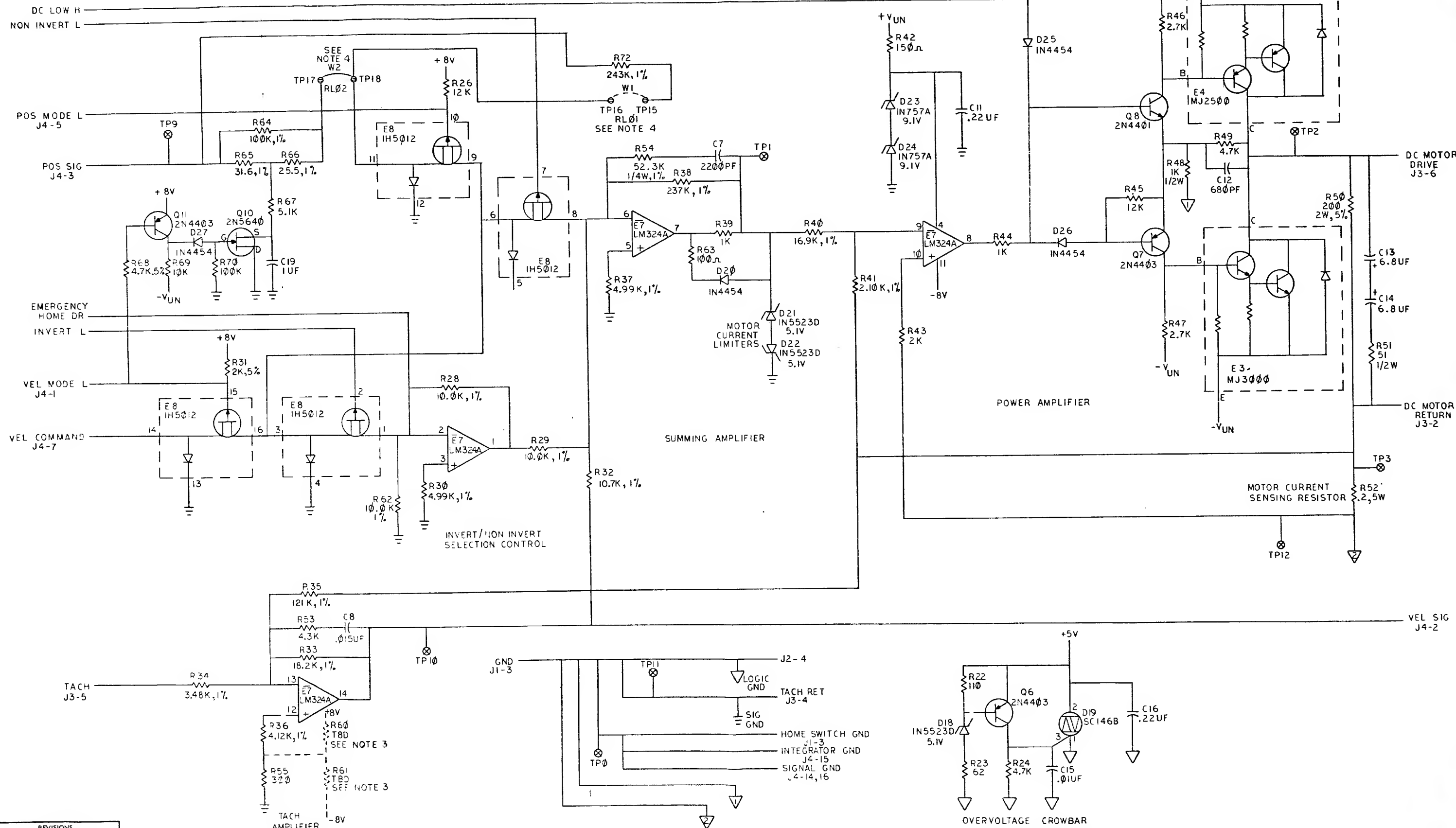
NOTES:

1. ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
2. E1 AND E2 ARE SPARES.
3. VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
4. INSTALL W1 AND W2 FOR RL01 ON SIDE 2. INSTALL W2 ONLY FOR RL02 ON SIDE 2.

REV.	CHANGE NO.	DATE	BY	CHK
1	1	11/13/78	W. ZAPICH	
2	2	11/13/78	W. ZAPICH	
3	3	11/13/78	W. ZAPICH	
4	4	11/13/78	W. ZAPICH	
5	5	11/13/78	W. ZAPICH	
6	6	11/13/78	W. ZAPICH	
7	7	11/13/78	W. ZAPICH	
8	8	11/13/78	W. ZAPICH	

DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLES		CLASS OF		NOMINAL DIMENSION RANGE INCHES	
±0° 30'		ACCURACY		OVER 0 TO 0.2	
SURFACE		(CHECK ONE)		OVER 0.2 TO 1.2	
QUALITY		MEDIUM		OVER 1.2 TO 4.0	
IN		PREFERRED		OVER 4.0 TO 12.0	
MICROINCHES		±0.004		OVER 12.0 TO 40.0	
VARIATION		±0.012		OVER 40.0 TO 80.0	
THIRD ANGLE PROJECTION		FIRST USED ON		digital	
REMOVE BURRS AND BREAK SHARP CORNERS		TITLE		DC SERVO AND POWER SUPPLY	
DO NOT SCALE DWG		NEXT HIGHER ASSY.		D-0A-54 3534-0-0	
MATERIAL		SCALE		SIZE CODE NUMBER REV.	
FINISH		SHEET OF 2		D CS 5413534-0-1	

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REVISIONS		
CHK	CHANGE NO	REV.

TITLE		SIZE CODE	NUMBER	REV.
DC SERVO AND POWER SUPPLY		D	CS 5413534-0-1	1
SCALE	SHEET	OF	DIST.	

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REWORK INSTRUCTIONS:

ECO 5413534-CX003

COMPONENT ADDS SIDE 1:

- 3-1 ADD POLARIZED SIDE OF C20 (1002781-00) AT E1-3 AND THE GND SIDE AT E2-1.

WIRE ADDS SIDE 1:

- 3-2 ADD WIRE FROM THE PTH NEXT TO E1-3 TO T2.
- 3-3 ADD WIRE FROM THE PTH NEXT TO E2-1 TO C15 GND (BOTTOM).

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
1	1	D-MD-5013533-0-0	5013533-00	ETCHED CIRCUIT BOARD	1		
2	2		1013466-08	680.0 MMF 50V 10% X7R CER	1		C12
3	3		1016009-00	2200.0 MMF 50V 5% CER	1		C7
4	4		1001610-00	.01 MFD 50V +80-20% Z5U CER	4		C1,C9,C10,C15
5	5		1002630-00	.015 MFD 100V 10% MYLR	1		C8
6	6		1013466-11	.22 MFD 50V +80-20% Z5U CER	4		C3,C5,C11,C16
7	7		1005306-00	*** THIS ITEM IS NOT USED ***	-		
8	8		1000076-00	*** THIS ITEM IS NOT USED ***	-		
9	9		1309422-00	5.10 .25 W 5.0 % CC	1		R58
10	10		1312929-00	62.0 .25 W 5.0 % CC	2		R3,R23
11	11		1311523-00	110.0 .25 W 5.0 % CC	1		R22
12	12		1300247-00	120.0 .25 W 5.0 % CC	1		R13
13	13		1300271-00	220.0 .25 W 5.0 % CC	1		R59
14	14		1301425-00	300.0 .25 W 5.0 % CC	1		R55
15	15		1303178-00	620.0 .25 W 5.0 % CC	1		R6
16	16		1300365-00	1.0 K .25 W 5.0 % CC	5		R1,R7,R39,R44,R57
17	17		1300391-00	1.50 K .25 W 5.0 % CC	1		R5
18	18		1302388-00	2.0 K .25 W 5.0 % CC	2		R31,R43
19	19		1300426-00	2.70 K .25 W 5.0 % CC	2		R46,R47
20	20		1302389-00	4.30 K .25 W 5.0 % CC	1		R53
21	21		1300447-00	4.70 K .25 W 5.0 % CC	10		R10-R12,R14,R15,R19,R20,R24,R49,R68
22	22		1303179-00	8.20 K .25 W 5.0 % CC	3	CONT	R9,R16,R17
23	23		1300488-00	12.0 K .25 W 5.0 % CC	4		R25,R26,R45,R56
24	24		1305346-00	27.0 K .25 W 5.0 % CC	1		R21
25	25		1305131-00	*** THIS ITEM IS NOT USED ***	-		
26	26		1312923-00	2.10 K .25 W 1.0 % RN55D-F10	1		R41
27	27		1305114-00	3.48 K .25 W 1.0 % RN55D-F10	1		R34
28	28		1314763-00	4.12 K .25 W 1.0 % RN55D-F10	1		R36
29	29		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	3		R28,R29,R62

REVISION HISTORY			BASIC PART NO: 5413534			DRN: JERRY BEST		DATE: 26-JUL-78		D I G I T A L			
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D: JERRY BEST		DATE: 26-JUL-78		TITLE PARTS LIST			
---	INIT	A	SECTION.VARIATION INDEX			CHK'D: JERRY BEST <td colspan="2">DATE: 26-JUL-78</td> <td colspan="4">D.C. SERVO AND POWER SUPPLY</td>		DATE: 26-JUL-78		D.C. SERVO AND POWER SUPPLY			
BN	5413534-CZ001	B	[A] 00			DES.ENG: R. NOGUCHI		DATE:		DOCUMENT NUMBER			
MZ	5413534-CX003	C	[B]			RESP.ENG.: R. NOGUCHI		DATE: 26-JUL-78		SIZE CODE NUMBER REV			
MZ	5413534-CX004	D	[C]			MFG.ENG.: P. CHURCH		DATE:		K PL 5413534-0-DBP D			
			[D]			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME: EDIT #			
			[E]			ID-UA-5413534-0-0		RL02		Z0494D,PLS 20			
			[F]			THIS DRAWING AND SPECIFICATIONS HEREIN, ARE THE PROPERTY OF DIGITAL EQUIPMENT CORPORATION AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION. COPYRIGHT (C) 1981. DIGITAL EQUIPMENT CORPORATION *							
			[G]										
			[H]										
			[I]										
			[J]										
			[K]										
			[L]										
			[M]										
			[N]										

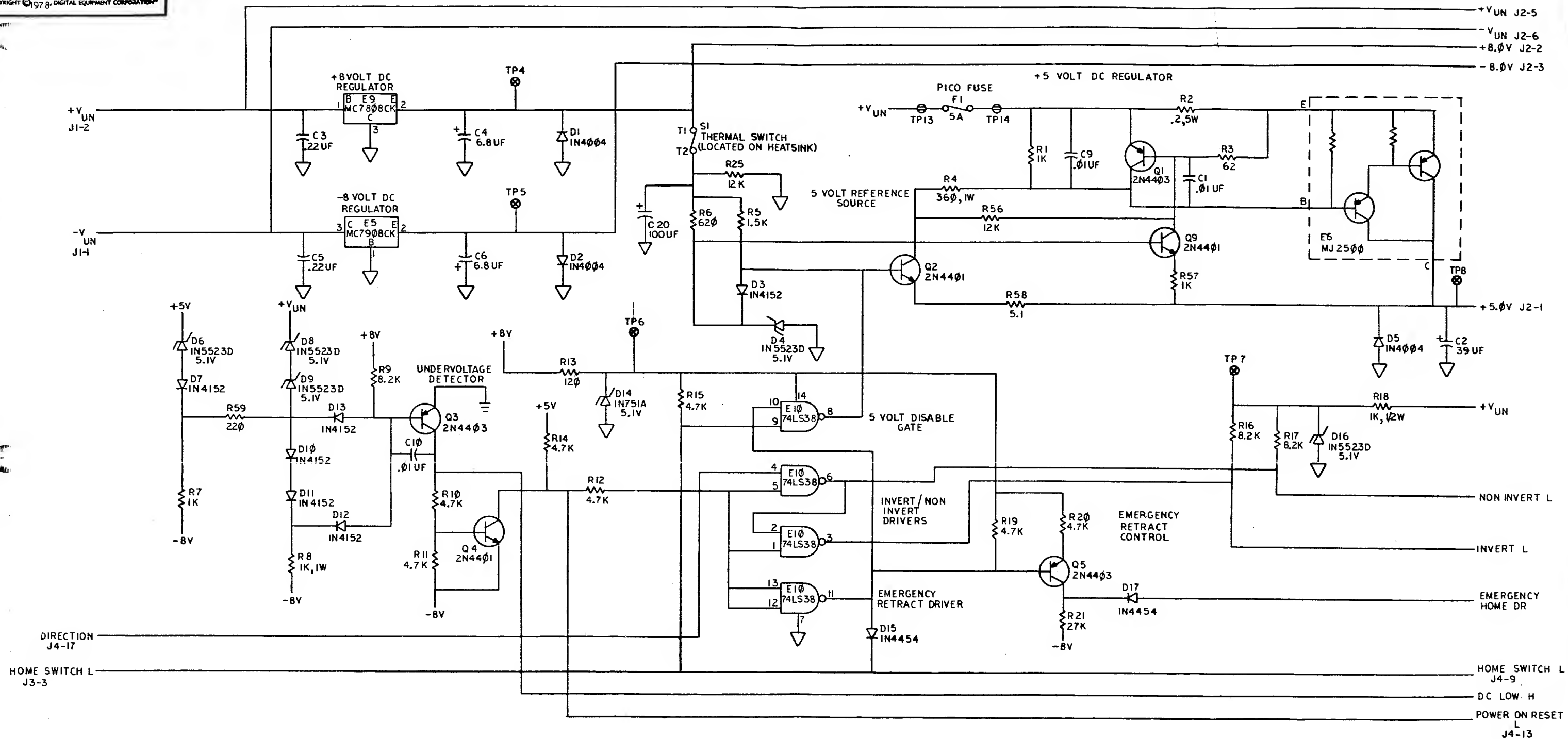
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
					00		
30	30		1312924-00	10.70 K .25 W 1.0 % RN55D-F10	1		R32
31	31		1309412-00	18.20 K .25 W 1.0 % RN55D-F10	1		R33
32	32		1315436-00	52.30 K .25 W 1.0 % RN55D-F10	1		R54
33	33		1304843-00	243.0 K .25 W 1.0 % RN55D-F10	1		R72
34	34		1315437-00	237.0 K .25 W .10% RN55D-F10	1		R38
35	35		1302378-00	51.0 .50 W 5.0 % CC	1		R51
36	36		1300364-00	1.0 K .50 W 5.0 % CC	2		R18,R48
37	37		1314068-00	360.0 1.0 W 5.0 % CC	1		R4
38	38		1300368-00	1.0 K 1.0 W 5.0 % CC	1		R8
39	39		1301494-00	200.0 2.0 W 5.0 % CC	1		R50
40	40		1313358-00	.20 5.0 W 3.0 % WW	2		R2,R52
41	41		1105796-00	1N 4004 PIV=400 I= 1A D041 SP	3		D1,D2,D5
42	42		1113953-00	1N 5523D VZ= 5.1 1% .40W P	8		D4,D6,D8,D9,D16,D18,D21,D22
43	43		1109990-00	1N 757A VZ= 9.1 5% .40W P	2		D23,D24
44	44		1110994-00	1N 751A VZ= 5.1 5% .40W	1		D14
45	45		1114117-00	1N 4152 PIV=40 I=75	6		D3,D7,D10,D11,D12,D13
46	46		1111577-00	1N 4454 TR= 4NS PIV= 50 S	6		D15,D17,D20,D25-D27
47	47		1513698-00	TRIAC0200V,I>14A	1		D19
48	48		9009597-00	INSULATOR, THERMA-FILM	1		
49	49		1513489-00	2N 4401 NPN 350MW SI 40 20	4		Q2,Q4,Q8,Q9
50	50		1513490-00	2N 4403 PNP 350MW SI-40 30	6		Q1,Q3,Q5-Q7,Q11
51	51		1511282-00	MJ2500 PNP 150WC SI 60 5 1K 5A	2		E4,E6
52	52		1511349-00	TIP 640 (OR MJ3000) NPN DARLNGT	1		E3
53	53		1911706-00	5012 ANALOG SWITCH,4CHNL	1		EB
54	54		1912818-00	LS38 NAND BUFFER-QUAD 2IN	1		E10
55	55		1912107-01	324ANDP AMP,QUAD	1		E7
56	56		1913695-00	7808 VOLT REG,FIX +8V	1		E9
57	57		1913694-00	7908 VOLT REG,FIX -8V	1		E5
58	58		9008419-00	WASHER, FLAT, THERMAFILM .002THK	5		
59	59		7418595-00	HEATSINK ASSEMBLY	1		
60	60		9008033-01	SCREW,PAN,PHIL 4-40X 9/16 SS	11		
61	61		9006557-00	NUT,KEP , 4-40X 1/4 AF	11		
62	62		9006655-00	WASHER, FLAT, .312 O.D. X .125 I	11		
63	63		9008268-00	COMPOUND, THERMAL JOINT	A/R		
64	64		1210824-00	THERMOSTAT,00215,C0156,SPST,NORM	1		S1
65	65		9008185-00	NUT,KEP , 6-32X1/4 AF	1		
66	66		9006653-00	WASHER, FLAT, .375 O.D. X .156 I	1		
67	67		1205747-00	FUSE, SUB-MINI, 5.000A, 125V, A	1		F1
68	68		9006735-00	EYELET, FUNNEL FLANGE, .059 OD X	6		TF13-TP18
69	69		9007791-00	TERM PCB 2POS SOLDER,TURRET	13		TF0-TP12
70	70		1213922-01	HEADER 3POS	1		J1
71	71		1213922-04	HEADER 6POS	1		J2
72	72		1213900-00	CONN,RCPT 6POS	1		J3
73	73		1209941-06	HEADER,100 20POS RT ANGLE	1		J4
74	74		1209941-04	HEADER RT ANGLE,RIGHT	1		
75	75		1209941-03	HEADER RT ANGLE LEFT L	1		
76	76		1305324-00	4.99 K .25 W 1.0 % RN55D-F10	2		R37,R30
77	77		1300250-00	150.0 .25 W 5.0 % CC	1		R42

D I G I T A L			TITLE			SECTION A OF A			SIZE CODE DOCUMENT NUMBER REV		
									K PL 5413534-0-DBP		D

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION 00	REFERENCE DESIGNATOR
78	78		1312618-00	16.90 K .25 W 1.0 % RN55D-F10	1	R40
79	79		1300229-00	100.0 .25 W 5.0 % CC	1	R63
80	80		1305336-00	*** THIS ITEM IS NOT USED ***	-	
81	81		1309416-00	31.60 K .25 W 1.0 % RN55D-F10	1	R65
82	82		1002781-00	100 MFD 25V +75-10% AL EL	1	C20
83	83		9009185-00	JUMPER, WIRE, INSULATED, BLACK B	2	W1,W2
84	84		1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R64
85	85		1015574-00	*** THIS ITEM IS NOT USED ***	-	
86	86		1315435-00	25.50 K .25 W 1.0 % RN55D-F10	1	R66
87	87		1312930-00	5.10 K .25 W 5.0 % CC	1	R67
88	88		1015520-00	1 MFD 100V 5% MET. MYLR	1	C19
89	89		1513697-00	2N 5640 FET N CHNNL	1	Q10
90	90		1300479-00	10.0 K .25 W 5.0 % CC	1	R69
91	91		1302466-00	100.0 K .25 W 5.0 % CC	1	R70
92	92		9105740-55	WIRE(WRAP)30AWG UL1423	A/R	
93	93		1017472-00	10 MFD 35V +50-10% AL EL	4	C4,C6,C13,C14
94	94		1016549-00	47 MFD 10V +50-10% AL EL	1	C2

D	I	G	I	T	A	L	TITLE	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
							D.C. SERVO AND POWER SUPPLY		K	PL	5413534-0-DBP	D

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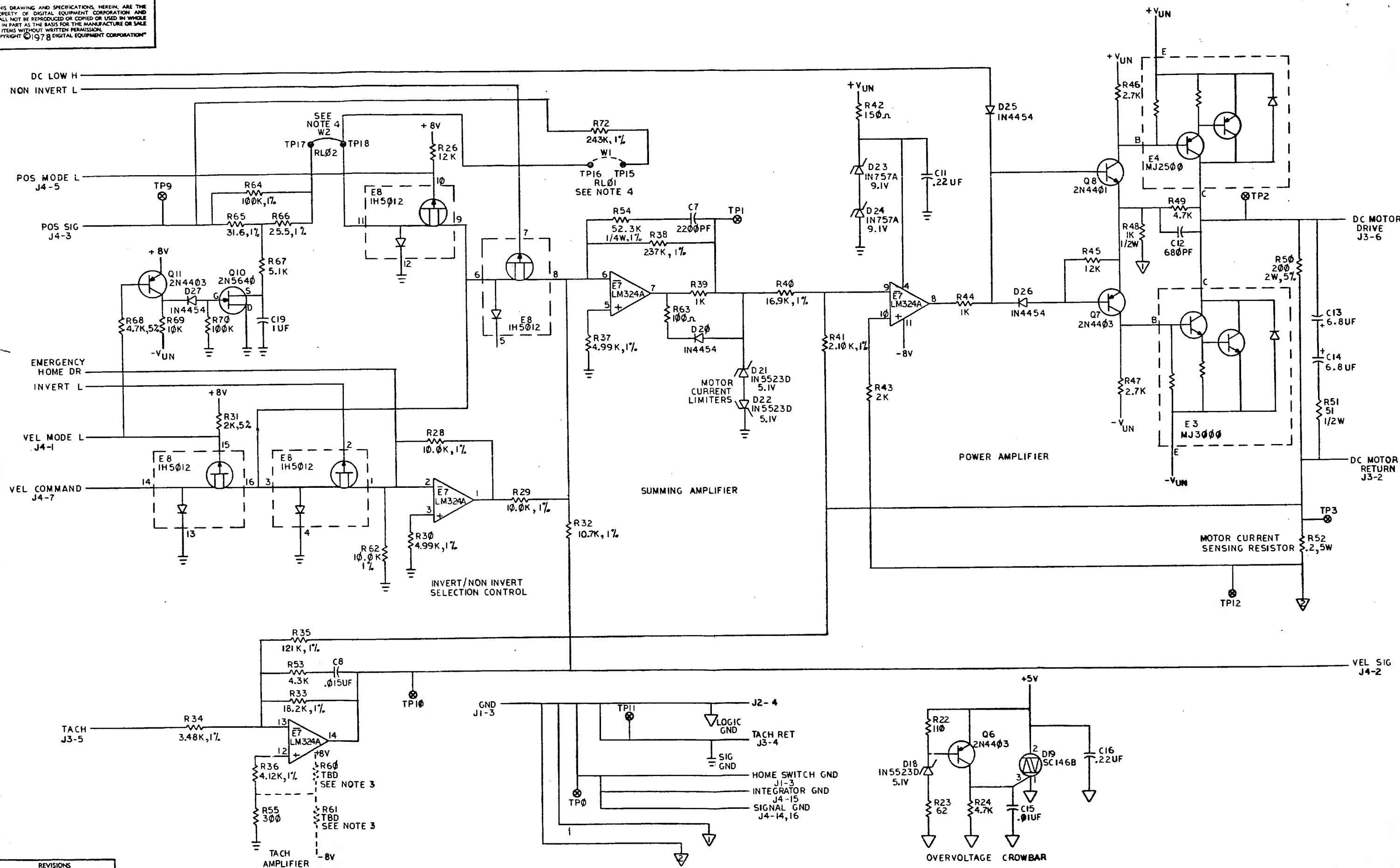


NOTES:

1. ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
2. ~~E1 AND E2 ARE SPARES~~
3. VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
4. INSTALL W1 AND W2 FOR RL01 ON SIDE 2.
INSTALL W2 ONLY FOR RL02 ON SIDE 2.

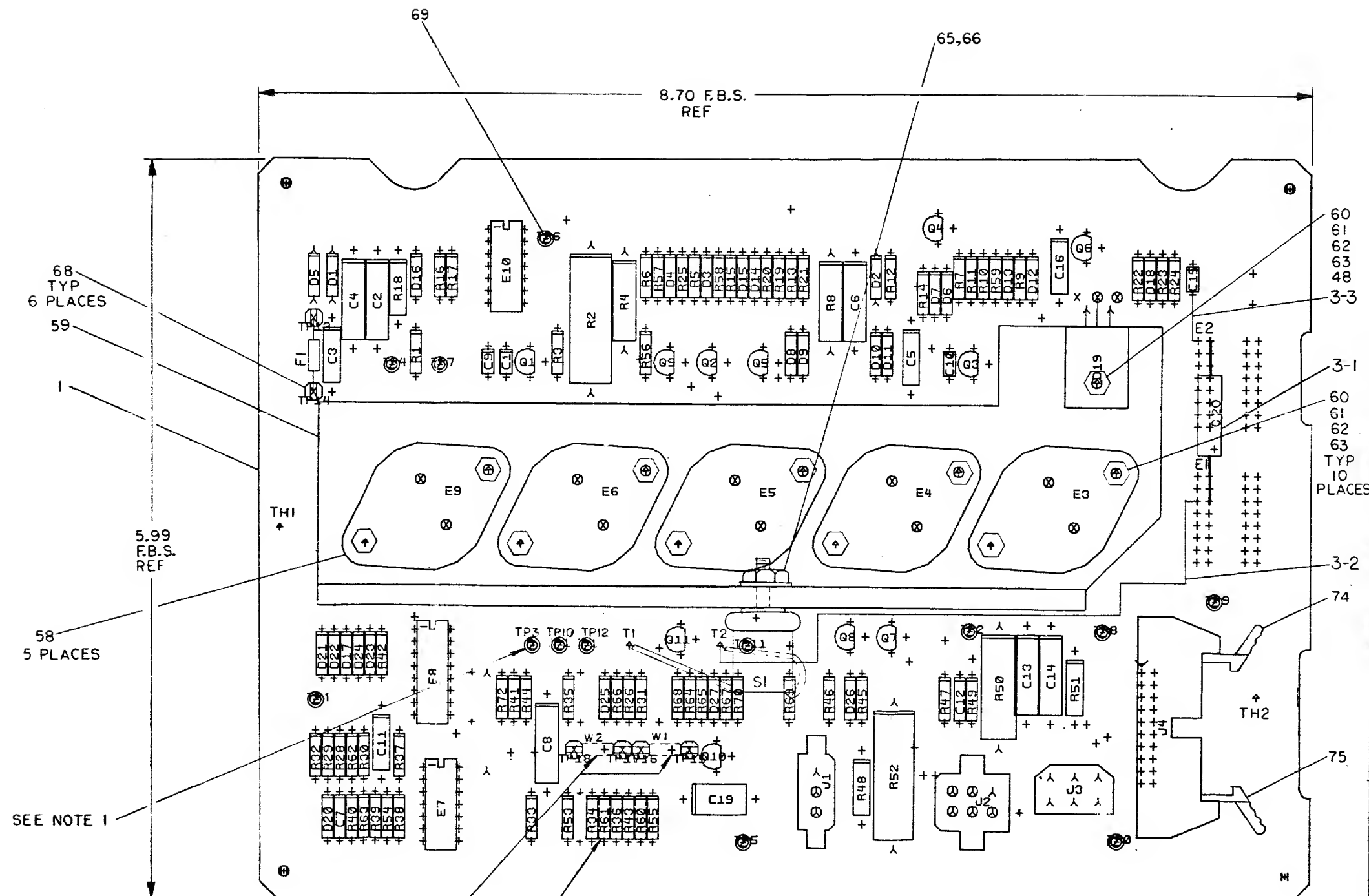
DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
ANGLES	CLASS OF	NOMINAL DIMENSION RANGE INCHES			
±0° 30'	PRECISION	OVER 0.2	OVER 1.2	OVER 4.0	OVER 40.0
SURFACE	(CHECK ONE)	TO 0.2	TO 1.2	TO 4.0	TO 80.0
QUALITY	IN	MEDIUM	±.004	±.008	±.016
QUANTITY & VARIATION	MICROINCHES	PREFERRED	±.012	±.016	±.025
THIRD ANGLE PROJECTION		FIRST USED ON			
REMOVE BURNS AND BREAK SHARP CORNERS		TITLE			
DO NOT SCALE DWG		DC SERVO AND POWER SUPPLY			
MATERIAL		D-UA-5413534-0-0		SIZE	CODE
FINISH		SCALE		NUMBER	REV.
		SHEET 1 OF 2		DIST.	D

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REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		SIZE	CODE	NUMBER		REV.
DC SERVO AND POWER SUPPLY		D	CS	5413534-0-1		D
SCALE		SHEET 2 OF 2		DIST.		1



SEE NOTE 3

SEE NOTE 2

CHK	CHANGE NO	REV
5413534- CZ000 BOB NOGUCHI M. Zarich	B	
5413534- CZ02A M. ZARICH M. Zarich	C	
5413534- CZ003 M. ZARICH M. Zarich	D	
5413534- CZ004 QB.17JUN81 M. ZARICH M. Zarich	E	

ETCH REV. B
P.C. DESIGN DATA BASE REV. EL

SIGNATURES		DATE	digital			
ORN. <i>Handwritten</i>		6/5/78				
CHK. O. <i>Handwritten</i>		6/5/78				
ENG. <i>Handwritten</i>			TITLE DC SERVO & POWER SUPPLY			
PROJ. ENG. <i>Handwritten</i>						
PROD. <i>Handwritten</i>		6/27/78				
SCALE 2/1		SIZE CODE	NUMBER		REV	
SHT. 1 OF 2						
NEXT HIGHER ASSY. R-CD-5413534-0		0	UA	5413534-0-0	E	

8

6

5

4

3

2

D

C

E

B

A

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REWORK INSTRUCTIONS:

ECO 5413534-CX003

COMPONENT ADDS SIDE 1:

- 3-1 ADD POLARIZED SIDE OF C20 (1002781-00) AT E1-3 AND THE GND SIDE AT E2-1.

WIRE ADDS SIDE 1:

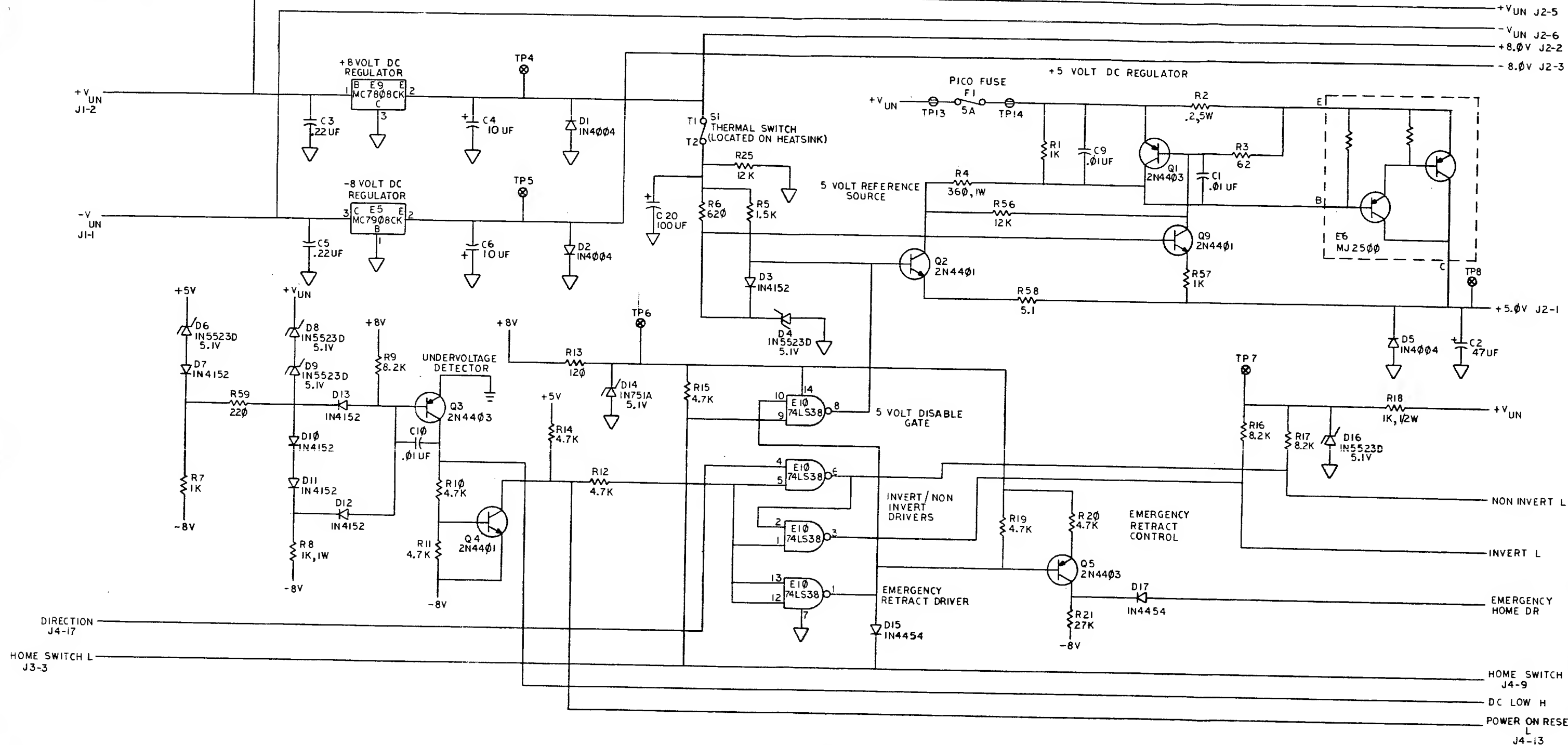
- 3-2 ADD WIRE FROM THE PTH NEXT TO E1-3 TO T2.
- 3-3 ADD WIRE FROM THE PTH NEXT TO E2-1 TO C15 GND (BOTTOM).

REVISION HISTORY			DOCUMENT NUMBER			
DATE	ECO NUMBER	REV.	SIZE	CODE	NUMBER	REV.
			D	UA	5413534-0-0	E
			SCALE		SHEET 2 OF 2	

DRD 137A

8 7 6 5 4 3 2 1

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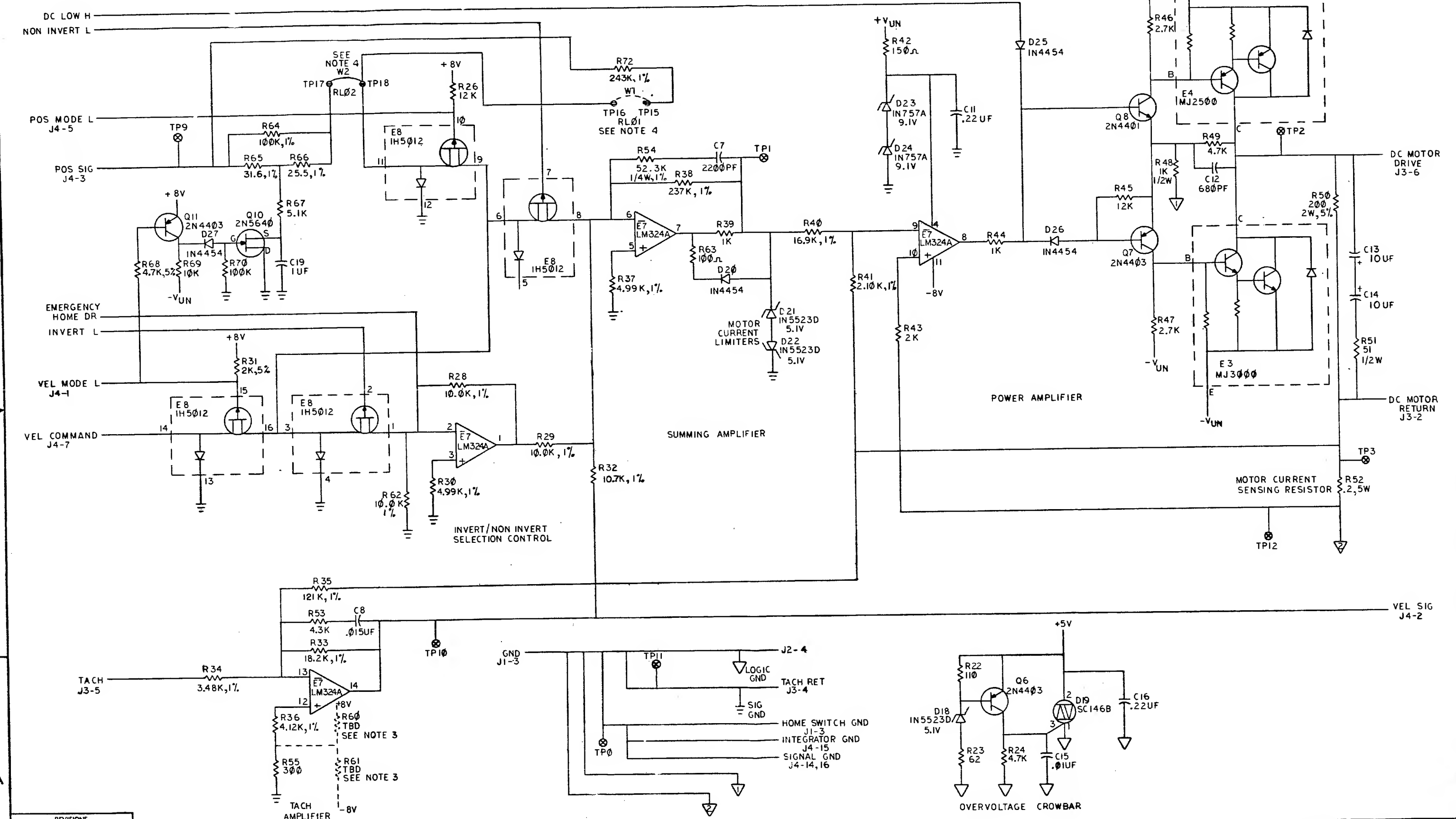
NOTES:

- ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
- ~~E1 AND E2 ARE SPARES~~
- VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
- INSTALL W1 AND W2 FOR RL01 ON SIDE 2.
INSTALL W2 ONLY FOR RL02 ON SIDE 2.

REVISIONS	CHANGE NO.	BY	DATE
1	5413534-CZ0	BOB NOGUCHI	10/1/78
2	5413534-CX02A	M. ZARICH	10/1/78
3	5413534-CX003	M. ZARICH	10/1/78
4	5413534-CX004	M. ZARICH	10/1/78
5	5413534-CX004	M. ZARICH	10/1/78

DESCRIPTION		OWG./PART NO.		ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
ANGLES 30° 30'	CLASS OF ACCURACY	NOMINAL DIMENSION RANGE INCHES		
SURFACE QUALITY	CHECK ONE	OVER 0 TO 0.2	OVER 0.2 TO 1.2	OVER 1.2 TO 4.0
IN	MEDIUM	±.004	±.008	±.012
MICROINCHES	PREFERRED	±.012	±.016	±.025
THIRD ANGLE PROJECTION	ORIN: R. Richard	DATE: 10/1/78	FIRST USED ON	
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D	DATE: 10/1/78	TITLE	
DO NOT SCALE DWG	ENG. [Signature]	DATE: 10/1/78	DC SERVO AND POWER SUPPLY	
MATERIAL	PROJ. ENG. [Signature]	DATE: 10/1/78	SIZE CODE	NUMBER
FINISH	PROD. [Signature]	DATE: 10/1/78	D	CS 5413534-0-1
NEXT HIGHER ASSY.		REV. E		

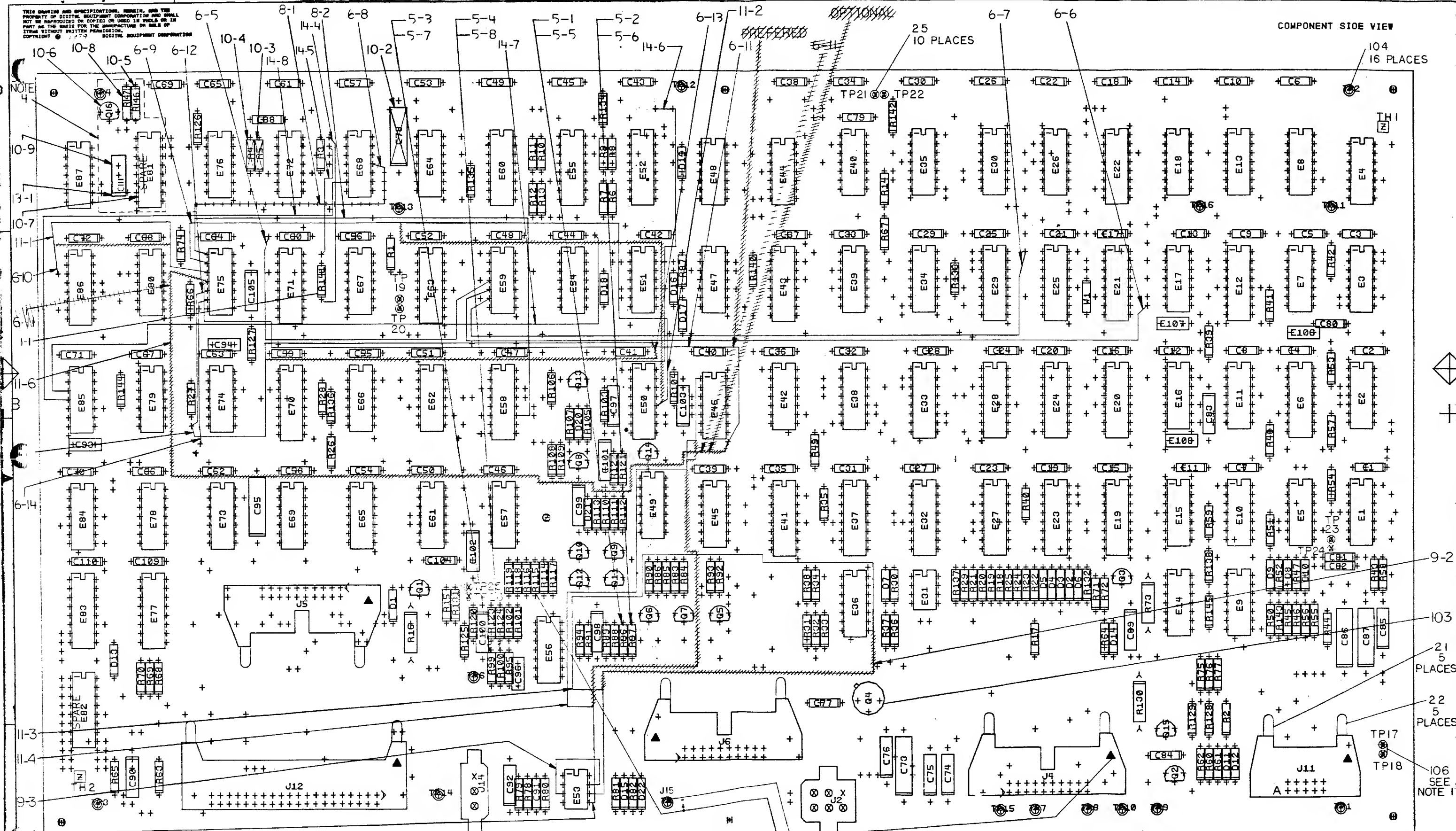
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REVISIONS			AMPLIFIER - 6V										STANDARD FORM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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COMPONENT SIDE VIEW
104
16 PLACES



NOTES:
1. INSTALL ITEM 106 AFTER TEST (BETWEEN TP17 & TP18 ONLY).
2. VALUE OF ITEM 2 TO BE DETERMINED AT NEXT HIGHER ASSEMBLY.
3. STAMP ORIENTATION TRIANGLES ON CONNECTORS AS SHOWN WITH APPLICABLE PER IN.

CHK	CHANGE	NO	REV
5414025-	CX001	B	
5414025-	CX003	C	
5414025-	CX005	D	
5414025-	CX006A	E	
5414025-	CX008	F	
5414025-	CX009	G	
5414025-	CX010A	H	
5414025-	CX011	I	
5414025-	CX012	J	
5414025-	CX013	K	
5414025-	CX014	L	
5414025-	CX015	M	

SEE NOTE 3
3-1
3-2
SEE NOTE 2

ETCH REV. B
P.C. DESIGN DATA BASE REV. B1

SIGNATURES		DATE	digital
DRN. C. 3-1		4-2-79	
CHK. D. 3-2		5-2-79	
ENG. 3-1		5-2-79	
TITLE			DRIVE LOGIC
PROJ. ENG. 3-1			
PROO. 3-1			
SCALE 2/1			
SHT. 1 OF 2		SIZE CODE	NUMBER
NEXT HIGHER ASSY. B-DD-5414025-2		D UA	
		REV	

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NOTES: CONT.
4 THESE COMPONENTS MAY OR MAY NOT APPEAR DEPENDING UPON THE ORIGINAL CS REV BEFORE INSTALLING ECO 5414025-CX014.

ECO#5414025-CX001

COMPONENT DELETE:
1-1 REMOVE R141

ECO#5414025-CX003

COMPONENT DELETE:
3-1 REMOVE TP5
COMPONENT ADD:
3-2 ADD J15, ITEM 109 AT PTH FOR TP5

ECO#5414025-CX005

COMPONENT DELETES:
5-1 R96,(365 K).
5-2 R97,(30.1 K).
5-3 R99,(365 K).
5-4 R100,(30.1 K).
COMPONENT ADDS:
5-5 R96,(3.65 K).
5-6 R97, (301).
5-7 R99, (3.65 K).
5-8 R100, (301).

ECO#5414025-CX006

ETCH CUTS:
6-1 }
6-2 } SEE D-EC-5014024-0-0
6-3 }
6-4 }

WIRE ADDS SIDE 1:
6-5 FROM E59-4 TO E71-2 (PTH TO THE LEFT OF C60).
6-6 FROM E59-5 TO E21-7 (PTH TO THE RIGHT OF E21-10).
6-7 FROM E59-6 TO E25-1 (PTH TO THE LEFT OF E25-1).
6-8 FROM E75-1 TO E68-11.
6-9 FROM E75-2 TO E50-12.
6-10 FROM E75-3 TO PTH TO THE LEFT OF E86-3.
6-11 FROM E75-4 TO PTH BELOW E46-8.
6-12 FROM E75-5 TO PTH BELOW R27.
6-13 FROM PTH BELOW R27 TO PTH TO THE UPPER RIGHT OF C41.
6-14 FROM E75-6 TO E73-1 (PTH ALONG ETCH ABOVE E73-1).

ECO# 5414025-CX008

WIRE DELETE:
8-1 E68-11 TO E75-1.
WIRE ADD:
8-2 E75-1 TO E58-11.

ECO# 5414025-CX009

WIRE ADDS:
9-1 E46 PIN 1 TO E53 PIN 5.
9-2 E36 PIN 8 TO E53 PIN 6.
9-3 E53 PIN 7 TO E53 PIN 3.

ECO# 5414025-CX010A

COMPONENT DELETES:
10-2 REMOVE C78 (1000076-00)
10-3 REMOVE R5 (1300365-00)
10-4 REMOVE R4 (1300447-00)
COMPONENT ADDS:
10-5 ADD R146 (1302391-00)
10-6 ADD Q16 (1513489-00)
10-7 ADD E81 (1912837-00)
10-8 ADD R147 (1305608-00)
10-9 ADD C111 (1005334-00)

ECO# 5414025-CX011

REROUTING INSTRUCTIONS:
11-1 REROUTE WIRE 6-10 (E75-3 TO PTH TO THE LEFT OF E86-3).
11-2 REROUTE WIRE 6-9 (E75-2 TO E50-12).
11-3 REROUTE WIRE 9-2 (E36-8 TO E53-6).
11-4 REROUTE WIRE 9-1 (E46-1 TO E53-5).
11-5 REROUTE WIRE 6-13 (FROM PTH BELOW R27 TO PTH TO THE UPPER RIGHT OF C41).

WIRE DELETES:
11-6 DELETE THE OPTIONAL ROUTING OF WIRE (6-11).

ECO# 5414025-CX013

COMPONENT ADD:
13-1 REMOVE C111 (1005334-00)
ROTATE 180° AND REPLACE.

ECO# 5414025-CX014

WIRE ADDS:
14-4 ADD WIRE FROM THE FEED THRU TO THE LEFT OF E68-1 TO THE FEED THRU TO THE LEFT OF E67-6.
14-5 ADD WIRE FROM THE FEED THRU TO THE LEFT OF E68-2 TO THE FEED THRU TO THE RIGHT OF E71-16.
14-6 ADD WIRE FROM THE FEED THRU DIRECTLY ABOVE E52-16 TO THE FEED THRU TO THE LEFT OF E50-1.
14-7 ADD WIRE FROM THE FEED THRU GOING TO E54-12 ABOVE E54 TO E85-3.
14-8 ADD WIRE FROM E85-4 TO E68-6.

REVISION HISTORY		
DATE	ECO NUMBER	REV

TITLE
DRIVE LOGIC

DOCUMENT NUMBER		
SIZE	CODE	NUMBER
D	UA	5414025-0-0
SCALE		REV.
NONE		LI
SHEET		OF
2		2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
00					
1	1	D-MD-5014024-0-0	DRILL AND ETCH BRD	1	
2	2	EWS	RESISTOR,FINAL TEST, 1/4W, 1%	4	R115,R116,R118,R119
3	3		330.0 MMF 100V 5%200PPM MICA	4	C93,C106-C108
4	4	1000023-00	470.0 MMF 100V 5%200PPM MICA	1	C94
5	5	1000024-00	3.9MFD 10V 10% S.TANT	2	C76,C85
6	6	1000076-00	39 MFD 10V 10% S.TANT	3	C73,C86,C95
7	7	1001610-00	.01 MFD 50V +80-20% 25U CER	74	C1-C6,C8-C39,C40-C45,C47-C49, C51-C53,C55-C68,C70,C71,C77, C79-C82,C84,C88,C104
8	8	1001776-00	1 MFD 35V 10% S.TANT	4	C74,C75,C92,C97
9	9	1004812-00	15 MFD 20V 10% S.TANT	1	C87
10	10	1005784-00	.01 MFD 100V 10% MYLR	1	C101
11	11	1010978-32	.047 MFD 50V 10% CER	1	C96
12	12	1013466-07	220.0 MMF 50V 5% CER	1	C91
13	13	1013466-08	680.0 MMF 50V 10% X7R CER	2	C89,C90
14	14	1013466-09	1000.0 MMF 50V 10% X7R CER	1	C83
15	15	1013466-10	3300.0 MMF 50V 5% CER	4	C98,C100,C103,C105
16	16	1013466-11	.22 MFD 50V +80-20% 25U CER	2	C99,C102
17	17	1111577-00	1N 4454 TR= 4NS PIV= 50 S	16	D1,D7-D20,D22
18	18	1113953-00	1N 5523D VZ= 5.1 1%	1	D21
19	19	1114117-00	1N 4152 PIV=40 I=75	5	D2-D6
20	20	1209941-02	HEADER 100 40POS RT ANGLE	1	J12
21	21	1209941-03	HEADER RT ANGLE LEFT L	5	
22	22	1209941-04	HEADER RT ANGLE,RIGHT	5	
23	23	1209941-05	HEADER,100 10POS RT ANGLE	1	J11
24	24	1209941-06	HEADER,100 20POS RT ANGLE	3	J4-J6
25	25	1210385-01	PIN 1POS WIRE WRAP	10	TP17-TP26
26	26	1213922-02	HEADER 3POS	1	J14
27	27	1213922-04	HEADER 6POS	1	J2
28	28	1300229-00	100.0 .25 W 5.0 % CC	5	R48,R133-R136

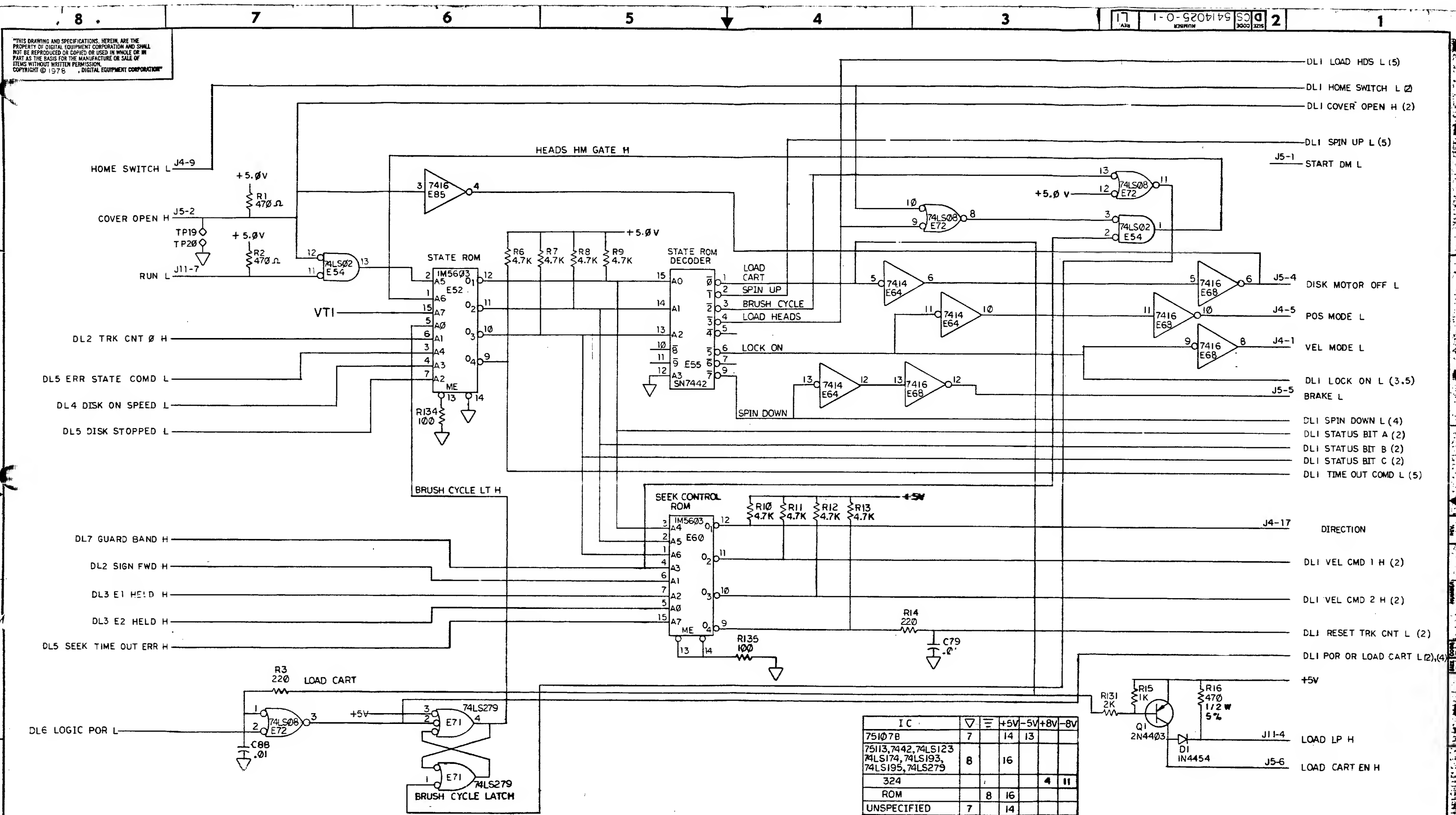
REVISION HISTORY			BASIC PART NO: 5414025			DRN: ART SIMM			DATE: 18-APR-79			D I G I T A L		
ENG	ECO NUMBER	REV	SECTION A OF A			CHK'D:	P. KENDRICK	DATE: 18-APR-79	TITLE			PARTS LIST		
MB	5414025-CX001	B	SECTION VARIATION INDEX			CHK'D:	P. KENDRICK	DATE: 18-APR-79	DRIVE LOGIC					
MB	5414025-CX002	C	[A] 00											
MZ	5414025-CX003	D	[B]			DES.ENG:	MIKE BROWN	DATE: 18-APR-79						
MB	5414025-CX005	E	[C]											
MB	5414025-CX010A	F	[D]											
MZ	5414025-CX014	H	[E]			RESP.ENG.:	MIKE BROWN	DATE: 18-APR-79	DOCUMENT NUMBER					
			[F]											
			[G]						SIZE CODE	NUMBER		REV		
			[H]			MFG.ENG.:	D. LICK	DATE: 18-APR-79	K	PL	5414025-0-DBP	H		
			[I]			ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:	FILE NAME:			EDIT #:		
			[J]			ID-UA-5414025-0-0		*RL02	Z0496H.PLS			31		
			[K]											
			[L]											
			[M]											
			[N]											
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LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
00					
29	29	1300271-00	220.0 .25 W 5.0 % CC	4	R3,R14,R41,R143
30	30	1300315-00	470.0 .50 W 5.0 % CC	3	R16,R73,R130
31	31	1300316-00	470.0 .25 W 5.0 % CC	4	R1,R2,R79,R142
32	32	1300365-00	1.0 K .25 W 5.0 % CC	15	R15,R39,R40,R42,R47,R52,R54,R56, R61,R72,R74,R101,R106,R129,R140
33	33	1300411-00	2.0 K .25 W 1.0 % RN55D-F10	1	R144
34	34	1300439-00	3.30 K .25 W 5.0 % CC	3	R93,R124,R126
35	35	1300447-00	4.70 K .25 W 5.0 % CC	35	R6-R13,R26-R28,R34,R35,R38,R43, R44,R49,R53,R57,R58,R62,R75-R78, R80,R82,R92,R102,R105,R123,R125, R127,R138,R145
36	36	1300479-00	10.0 K .25 W 5.0 % CC	2	R70,R107
37	37	1302388-00	2.0 K .25 W 5.0 % CC	13	R18-R21,R45,R50,R66,R67,R71,R87, R122,R128,R131
38	38	1302391-00	20.0 K .25 W 5.0 % CC	1	R59
39	39	1302394-00	30.0 K .25 W 5.0 % CC	1	R95
40	40	1302398-00	470.0 K .25 W 5.0 % CC	1	R55
41	41	1302466-00	100.0 K .25 W 5.0 % CC	1	R121
42	42	1302514-00	39.0 K .25 W 5.0 % CC	2	R91,R120
43	43	1302666-00	10.0 M .25 W 5.0 % CC	1	R94
44	44	1302871-00	1.21 K .25 W 1.0 % RN55D-F10	1	R88
45	45	1303044-00	100.0 K .25 W 1.0 % RN55D-F10	1	R25
46	46	1303047-00	464.0 .25 W 1.0 % RN55D-F10	5	R64,R65,R83,R85,R113
47	47	1303114-00	1.0 K .25 W 1.0 % RN55D-F10	2	R89,R117
48	48	1303312-00	10.0 K .25 W 1.0 % RN55D-F10	7	R17,R29-R31,R36,R60,R63
49	49	1304693-00	562.0 .25 W 1.0 % RN55D-F10	1	R108
50	50	1304841-00	75.0 K .25 W 5.0 % CC	1	R81
51	51	1304862-00	1.62 K .25 W 1.0 % RN55D-F10	1	R110
52	52	1304870-00	6.81 K .25 W 1.0 % RN55D-F10	1	R33
53	53	1305124-00	287.0 .25 W 1.0 % RN55D-F10	2	R84,R86
54	54	1305265-00	39.20 K .25 W 1.0 % RN55D-F10	1	R24
55	55	1305337-00	3.65 K .25 W 1.0 % RN55D-F10	2	R96,R99
56	56	1305405-00	24.90 K .25 W 1.0 % RN55D-F10	1	R23
57	57	1309595-00	1.0 M .25 W 5.0 % CC	3	R46,R51,R132
58	58	1310632-00	2.37 K .25 W 1.0 % RN55D-F10	1	R109
59	59	1317303-00	301.0 .25 W 1.0 % RN55D-F10	2	R97,R100
60	60	1312929-00	62.0 .25 W 5.0 % CC	2	R111,R112
61	61	1312930-00	5.10 K .25 W 5.0 % CC	3	R68,R69,R137
62	62	1312989-00	17.80 K .25 W 1.0 % RN55D-F10	3	R22,R103,R104
63	63	1313589-00	1.40 K .25 W 1.0 % RN55D-F10	1	R90
64	64	1313846-00	2.26 K .25 W 1.0 % RN55D-F10	1	R32
65	65	1314041-00	3.01 K .25 W 1.0 % RN55D-F10	1	R37
66	66	1314491-00	1.02 K .25 W 1.0 % RN55D-F10	1	R114
67	67	1513489-00	2N 4401 NPN 350MW SI 40 20	3	Q7,Q10,Q12
68	68	1513490-00	2N 4403 PNP 350MW SI-40 30	10	Q1-Q3,Q5,Q6,Q8,Q9,Q11,Q13,Q15
69	69	1513697-00	2N 5640 FET N CHNNL	1	Q14
70	70	1909928-00	7416 INVERTER GATE-HEX 11	4	E9,E10,E68,E85
71	71	1910046-00	7442 DECODER-1 OF 10,BCD	1	E55

D	I	G	I	T	A	L	TITLE	DRIVE LOGIC	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5414025-0-DBP	H

D	I	G	I	T	A	L	TITLE	DRIVE LOGIC	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	5414025-0-DBP	H

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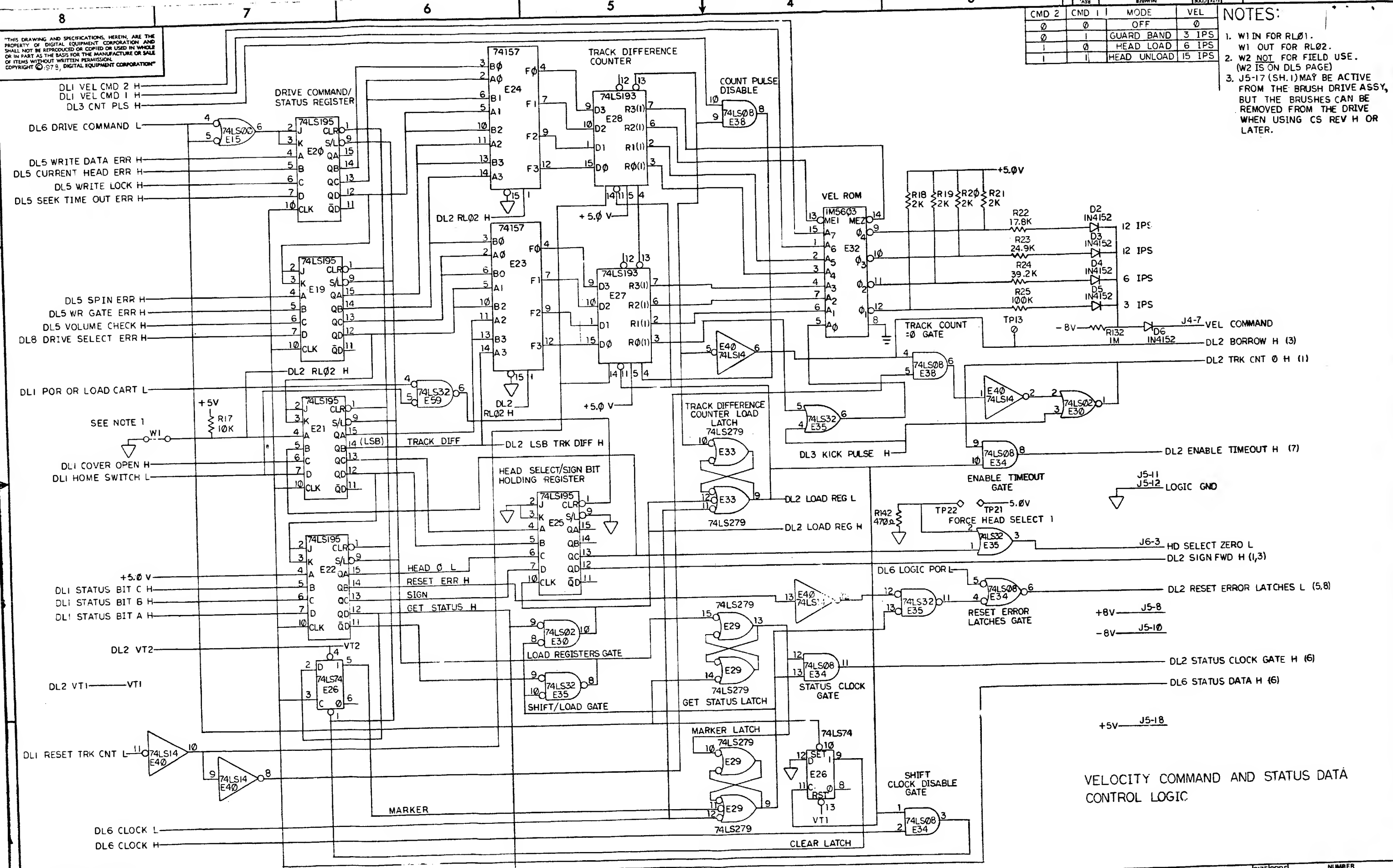


IC	7	8	14	13	16	12	11
75107B	7		14	13			
75113, 7442, 74LS123		8	16				
74LS174, 74LS193, 74LS195, 74LS279					4	11	
324							
ROM		8	16				
UNSPECIFIED	7		14				
339	12			3			
339				3	12		
339		12		3			

REVISIONS	CHANGE NO.	DATE	BY	REASON
1	5414025-CX001	10/1/75	M. BROWN	INITIAL DESIGN
2	5414025-CX002	10/1/75	M. BROWN	REVISION
3	5414025-CX003	10/1/75	M. BROWN	REVISION
4	5414025-CX004	10/1/75	M. BROWN	REVISION
5	5414025-CX005	10/1/75	M. BROWN	REVISION
6	5414025-CX006	10/1/75	M. BROWN	REVISION
7	5414025-CX007	10/1/75	M. BROWN	REVISION
8	5414025-CX008	10/1/75	M. BROWN	REVISION
9	5414025-CX009	10/1/75	M. BROWN	REVISION
10	5414025-CX010	10/1/75	M. BROWN	REVISION
11	5414025-CX011	10/1/75	M. BROWN	REVISION
12	5414025-CX012	10/1/75	M. BROWN	REVISION
13	5414025-CX013	10/1/75	M. BROWN	REVISION
14	5414025-CX014	10/1/75	M. BROWN	REVISION
15	5414025-CX015	10/1/75	M. BROWN	REVISION
16	5414025-CX016	10/1/75	M. BROWN	REVISION
17	5414025-CX017	10/1/75	M. BROWN	REVISION
18	5414025-CX018	10/1/75	M. BROWN	REVISION
19	5414025-CX019	10/1/75	M. BROWN	REVISION
20	5414025-CX020	10/1/75	M. BROWN	REVISION

DRN. 7/1/75	5/1/75	FIRST USED ON	digital
CHK'D. 7/1/75	5/1/75	TITLE	DRIVE LOGIC (STATE CONTROL LOGIC) (DL1)
ENG. 7/1/75	5/1/75	PROJ. ENG. 7/1/75	
PROD. 7/1/75	5/1/75		
NEXT HIGHER ASSY.			
SCALE 1:1	SIZE CODE D	CS 5414025-0-1	REV. 1
SHEET 1 OF 3	DIST.		

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CMD 2	CMD 1	MODE	VEL
0	0	OFF	0
0	1	GUARD BAND	3 IPS
1	0	HEAD LOAD	6 IPS
1	1	HEAD UNLOAD	15 IPS

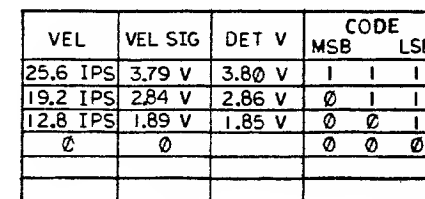
NOTES:

1. W1 IN FOR RLØ1.
W1 OUT FOR RLØ2.
2. W2 NOT FOR FIELD USE.
(W2 IS ON DL5 PAGE)
3. J5-17 (SH.1) MAY BE ACTIVE
FROM THE BRUSH DRIVE ASSY,
BUT THE BRUSHES CAN BE
REMOVED FROM THE DRIVE
WHEN USING CS REV H OR
LATER.

REVISIONS		
CHK	CHANGE NO.	REV.

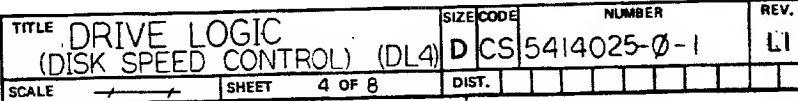
TITLE		DRIVE LOGIC (DL2)		SIZE	CODE	NUMBER		REV.
SCALE		SHEET 2 OF 8		D	CS	5414025 - 0-1		L

2	D	CS	5414025-0-1	LI
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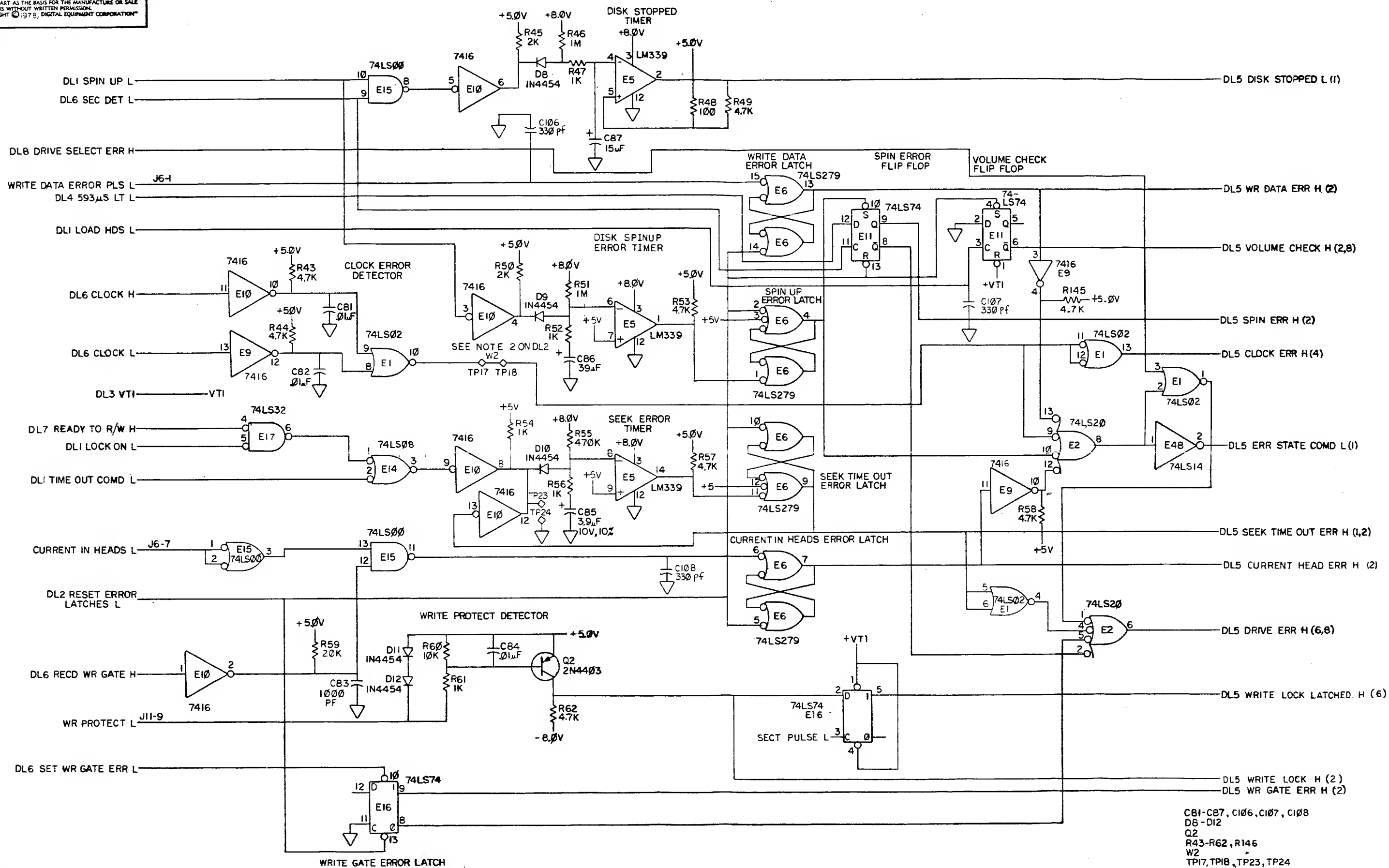


VEL	VEL SIG	DET V	CODE		
			MSB		LSB
25.6 IPS	3.79 V	3.80 V	1	1	1
19.2 IPS	2.84 V	2.86 V	0	1	1
12.8 IPS	1.89 V	1.85 V	0	0	1
0	0		0	0	0

REVISIONS		
CHK	CHANGE NO.	REV.



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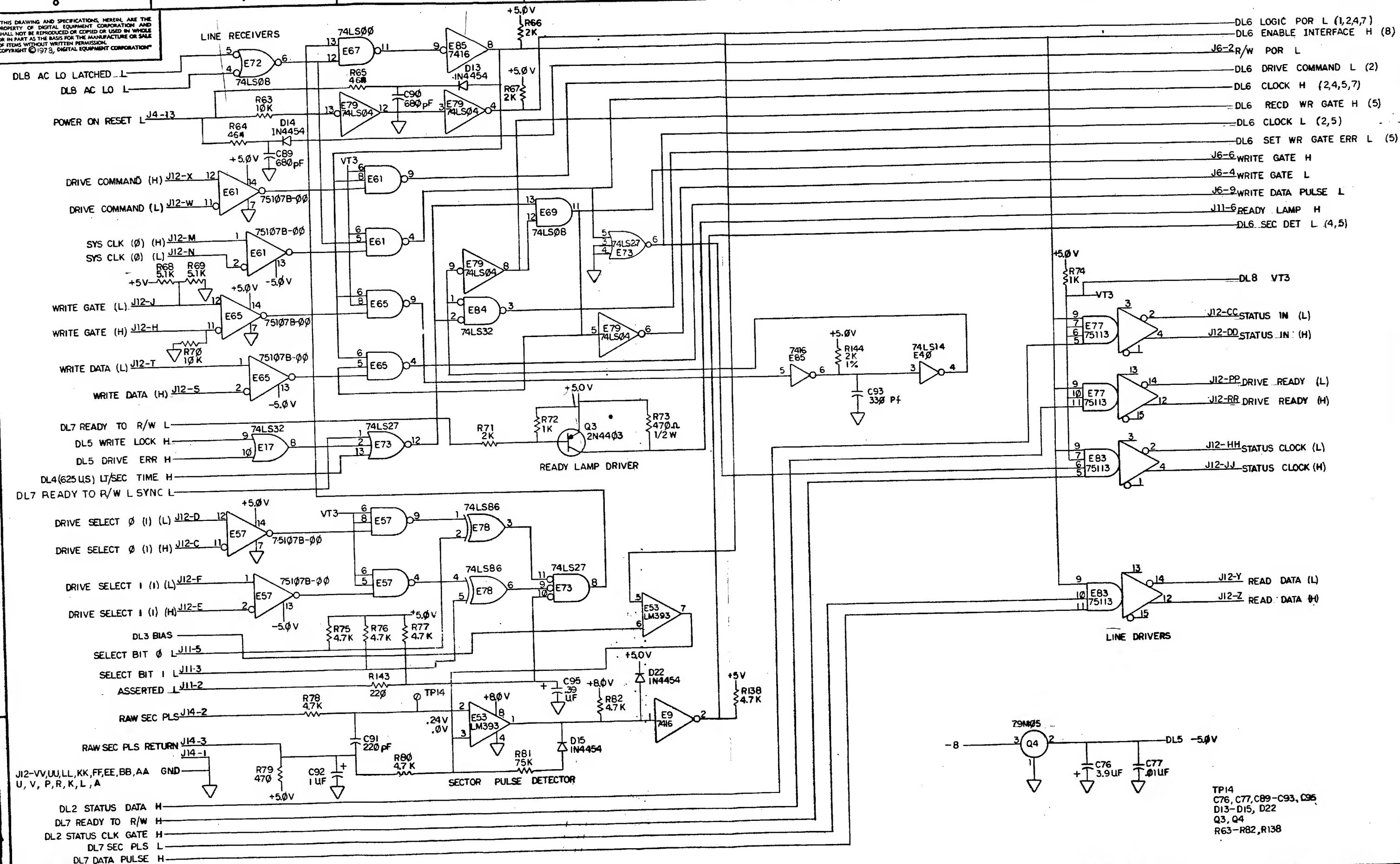


C81-C87, C106, C107, C108
D8-D12
Q2
R43-R62, R146
W2
TP17, TP18, TP23, TP24

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		DRIVE LOGIC (ERROR LOGIC) (DL5)	SIZE	CODE	NUMBER	REV.
SCALE					D CS 5414025-0-1	L1
SHEET		5	OF		8	
DIST.						

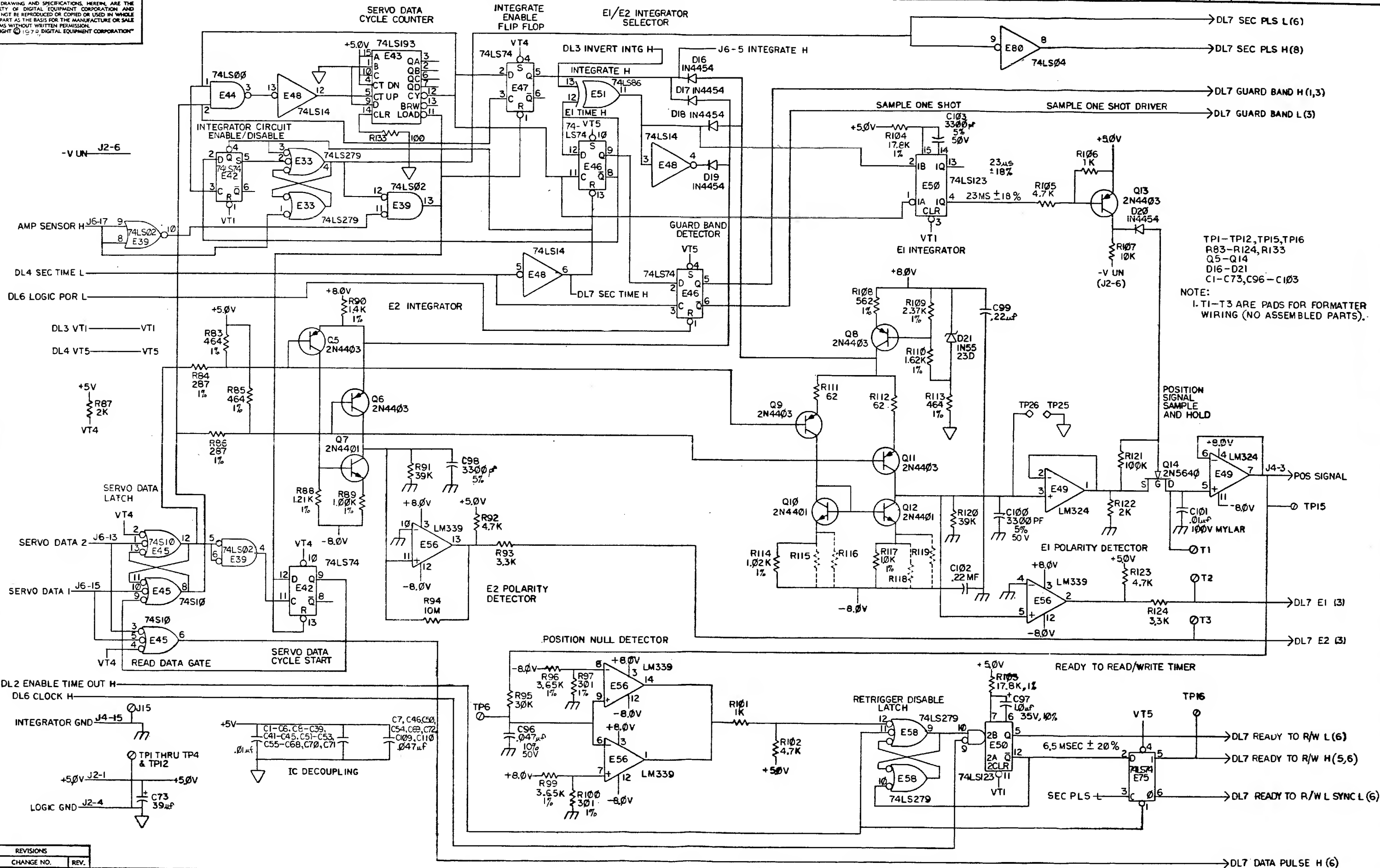
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TP14
C76, C77, C89-C93, C95
D13-D15, D22
Q3, Q4
R63-R82, R138

REVISIONS			TITLE						SIZE CODE		NUMBER		REV.
CHK	CHANGE NO.	REV.	DRIVE LOGIC (INTERFACE LOGIC) (DL6)						D	CS	5414025-0-1		(1)
									SCALE	6	OF	8	DIST.
									3		2		1

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TPI-TPI2, TPI5, TPI6
R83-R124, R133
Q5-Q14
D16-D21
C1-C73, C96-C103
NOTE:
I.T1-T3 ARE PADS FOR FORMATTER
WIRING (NO ASSEMBLED PARTS).

REVISIONS		
CHK	CHANGE NO.	REV.

TITLE		DRIVE LOGIC (INTEGRATOR LOGIC) (DL7)	SIZE CODE	D CS	NUMBER	5414025-0-1	REV.	LI
SCALE			SHEET	7	OF	8	DIST.	

